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Mangueras industriales - **Industrial hoses**

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IPL, CALIDAD ITALIANA GARANTIZADA · IPL, ITALIAN QUALITY GUARANTEED

Nuestra Empresa

Fundada a mediados de los años setenta, IPL S.p.A. es hoy el líder europeo en la producción y el suministro de mangueras industriales de TPU, PVC y otros materiales plásticos.

Situada en Besozzo, en una superficie de 55.000 metros cuadrados y con un almacén bien equipado de 7.000 metros cuadrados, nuestra empresa cuenta con la colaboración de más de 100 empleados y ofrece desde hace casi 50 años una amplia gama de productos (209 tipos de mangueras) para numerosas aplicaciones industriales.

IPL exporta el 70% de su producción, suministrando a todos los continentes, desde Asia hasta América, pasando por Australia y Nueva Zelanda, a través de una amplia red de distribución, en más de 100 países.

IPL es una empresa certificada ISO 9001:2015 y todas las mangueras incluidas en la gama alimentaria están debidamente certificadas de acuerdo con las normas más importantes reconocidas a nivel mundial, como la Reg. FDA y la UE 10/2011.

A lo largo de los años, la empresa ha ampliado su presencia directa en Europa y China para ofrecer un servicio más eficaz y amplio: IPL Uk Ltd (en West Midlands), fundada en 1999; IPL Industrial Hoses (Shanghai) Co. Ltd, inaugurada en 2012; IPL Mangueras Técnicas S.L. (Barcelona), fundada en 2020 para atender mejor al mercado español.

IPL ofrece una serie de servicios de alto valor añadido que son muy apreciados por los clientes y los diferencian de otros fabricantes del sector. La empresa pone a disposición de sus clientes la experiencia y los know-how del Laboratorio de Investigación y Desarrollo, que se dedica a analizar y probar materiales y mangueras, desarrollar nuevos proyectos y asesorar sobre nuevas soluciones. Este último ofrece información detallada y actualizada sobre los productos, los materiales y la normativa vigente.

IPL puede ofrecer soluciones personalizadas, marcas dedicadas, servicio de corte a medida, diferentes tipos de embalaje y versiones de color, con el fin de suministrar productos personalizados de acuerdo con los requisitos del cliente.

La calidad de los productos IPL y la experiencia de las personas que trabajan con entusiasmo en todos los departamentos de la empresa son sinónimos de casi 50 años de éxito.

The Company

Established in mid-Seventies, IPL S.p.A. is today an European leading manufacturer and supplier of industrial hoses in TPU, PVC and other plastic materials. Located in Besozzo (VA), on a wide area of 55.000 mq and with a well-equipped warehouse of 7.000 mq, the Company can rely on the cooperation of over 100 employees and it has been offering for nearly 50 years a wide range of products (209 types of hoses), for numerous industrial applications.

IPL exports 70% of its production, supplying every continent, from Asia to America and as far as Australia and New Zealand, through a widespread distribution network, to over 100 countries.

The Company is ISO 9001:2015 certified and all hoses included in the food range are approved, in compliance with the most important and worldwide recognised standards, such as FDA Reg. and EU 10/2011.


Over the years, it has been expanding its direct presence in Europe and China, to ensure a widespread and more efficient service: IPL Uk Ltd (in West Midlands), established in 1999, IPL Industrial Hoses (Shanghai) Co. Ltd, inaugurated in 2012 and the most recent IPL Mangueras Técnicas S.L. (Barcelona), opened its doors in 2020, to better serve the Spanish market.

IPL offers a variety of value-added services, highly rated by customers and that set the Company apart from the other manufacturers. It provides the expertise and know-how of its R&D Laboratory, dedicated to material and hoses analysis and testing, new projects development as well as to consultancy aimed at finding new solutions. It gives promptly detailed and updated information about products, materials and current standards. Moreover IPL is able to offer tailor-made solutions, markings, cut-to-lengths service, different packagings and color versions, in order to meet the most demanding requests.

The quality of IPL products and the experience of the people who work enthusiastically in every department of the Company are synonymous with almost 50 years of success

ÍNDICE DE MANGUERAS / HOSES INDEX

| MANGUERA HOSE | CÓD. CODE | SECCIÓN SECTION | GAMMA ØINT. MM Ø INT. RANGE MM | PÀG. PG. |
|------------------------------------------------------------------------------------|-----------|------------------------------|--------------------------------|----------|
| ABRASIÓN / ABRASION | | | | |
|  | VZ | VULCANO® Z | 40-500 | 14 |
|  | ZR | VULCANO® ZR | 40-500 | 15 |
|  | W4 | VULCANO® S1 | 25-500 | 16 |
|  | VM FR | VULCANO® M FR | 25-450 | 17 |
|  | VR FR | VULCANO® R FR | 25-500 | 18 |
|  | VB | VULCANO® 09 EST | 20-500 | 19 |
|  | VC | VULCANO® 15 EST | 20-500 | 20 |
|  | TH 01 | VULCANO® STONE | 38-254 | 21 |
|  | TH 07 | VULCANO® STONE PLUS | 40-254 | 22 |
|  | EB | VULCANO® 09 EL | 38-203 | 23 |
|  | EC | VULCANO® 15 EL | 38-203 | 24 |
|  | UT 01 | VULCANO® SC 0,75 NEW! | 130 | 25 |
|  | VQ 01 | VULCANO® SC 1,5 NEW! | 360 | 26 |
|  | VJ 01 | VULCANO® SC 1,75 NEW! | 206-257-360 | 27 |
|  | N7 | NEXT 07 | 50,8-203 | 28 |
|  | N9 | NEXT 09 | 25,4-305 | 29 |
|  | N5 | NEXT 15 | 40-203 | 30 |
|  | OU | EOLO PU EST | 13-300 | 31 |
|  | OU 86 | EOLO PU EST ASW | 13-300 | 32 |
|  | OP | EOLO PUP EST | 30-254 | 33 |
|  | OZ | ZEUS PU EST NEW! | 30-102 | 34 |
|  | UR | URANO PU | 32-152 | 35 |
|  | UH | URANO HD SUPER | 63,5-152 | 36 |
|  | AU | ARIANNA PU | 06-13 | 37 |
| AIRE, HUMOS, GASES / AIR, FUMES AND GASES | | | | |
|  | ES | EOLO SL | 25-203,2 | 40 |
|  | EL | EOLO L | 25-300 | 41 |

| MANGUERA HOSE | CÓD. CODE | SECCIÓN SECTION | GAMMA ØINT. MM Ø INT. RANGE MM | PÀG. PG. |
|-------------------------------------------------------------------------------------|-----------|-----------------------------|--------------------------------|----------|
|  | EO | EOLO | 13-300 | 42 |
|  | EE | EOLO SE | 16-250 | 43 |
| ALTAS TEMPERATURAS / HIGH TEMPERATURES | | | | |
|  | TR | EOLO TERMORESISTENTE | 40-505 | 46 |
|  | H1 | EOLO HT 180°C | 40-505 | 47 |
|  | VT | VULCANO® TPR-A | 32-406 | 48 |
|  | EY | EOLO CLIP HYPALON | 50-900 | 49 |
|  | H4 | EOLO HT 400°C | 50-900 | 50 |
|  | H5 | EOLO HT 450°C | 50-900 | 51 |
|  | P43 | SILDUCT 2S | 13-305 | 52 |
| ANTILLAMA / FLAME RETARDANT | | | | |
|  | UF 07 | VULCANO® AF PLUS | 25-406 | 54 |
|  | U9 01 | VULCANO® 09 AF | 25-500 | 55 |
|  | VP 04 | VULCANO® PVC AF | 76-203 | 56 |
|  | FF | EOLO PU AF | 19,1-160 | 57 |
|  | EF 75 | EOLO PVC AF | 20-300 | 58 |
| PETROLQUÍMICO / PETROCHEMICAL | | | | |
|  | OI 01 | APOLLO OIL | 20-203,2 | 60 |
|  | A1 09 | APOLLO NL1 OIL | 38,1-203,2 | 61 |
|  | PK | PLUTONE PK | 20-102 | 62 |
|  | PH | PLUTONE PO | 20-102 | 63 |
|  | MT | MARTE A.O. | 19-203 | 64 |
|  | SQ | SPIRALPRESS OIL | 50,8-101,6 | 65 |
|  | AT 11 | ARIANNA TA FUEL NEW! | 8-10 | 66 |
| LÍQUIDOS / FLUIDS HANDLING | | | | |
|  | AX | APOLLO SE | 19,1-304,8 | 68 |
|  | A1 | APOLLO NL 1 | 25,4-203,2 | 69 |
|  | AS | APOLLO SUPERFLEX | 20-203,2 | 70 |
|  | SF | APOLLO SUPERFLEX 2 | 50,8-152,4 | 71 |

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| MANGUERA HOSE | CÓD. CODE | SECCIÓN SECTION | GAMMA ØINT. MM Ø INT. RANGE MM | PÁG. PG. |
|----------------------------|-----------|------------------------------|--------------------------------|----------|
| | WT | SPIRALPRESS WT | 38,1-203,2 | 72 |
| | PW | PLUTONE PW | 20-102 | 73 |
| | GI 06 | GIOVE SE | 25-304,8 | 74 |
| | XL 01 | SATURNO L | 19,1-200 | 75 |
| | XL 06 | SATURNO L SE | 19,1-203,2 | 76 |
| | QP 01 | SATURNO AQUAPOOL NEW! | 20-55 | 77 |
| | SI 06 | SATURNO IDRO SE | 16-65 | 78 |
| | LU 01 | NAUTILUS ODOR PROOF | 16-50,8 | 79 |
| | NX NF | NETTUNO SE | 13-300 | 80 |
| | YV | ARIANNA 20 BAR | 8-25 | 81 |
| | YQ | ARIANNA 40 BAR | 8-16 | 82 |
| | YO | ARIANNA 80 BAR | 8-13 | 83 |
| | MM 01 | MERCURIO M NEW! | 25-203 | 84 |
| ALIMENTACIÓN / FOOD | | | | |
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| | VK | VULCANO® 09 ET | 20-500 | 87 |
| | VO | VULCANO® 12 ET | 25-500 | 88 |
| | VI | VULCANO® 15 ET | 20-500 | 89 |
| | N7 ET | NEXT 07 ET NEW! | 50,8-203 | 90 |
| | N9 ET | NEXT 09 ET | 30-203 | 91 |
| | N5 ET | NEXT 15 ET NEW! | 40-203 | 92 |
| | EU | EOLO PU FOOD | 13-304,8 | 93 |
| | EP | EOLO PUP FOOD | 22-304,8 | 94 |
| | ZE | ZEUS PU FOOD | 30-151,2 | 95 |
| | PY 01 | PLUTONE A | 6-151 | 96 |
| | PY 06 | PLUTONE A SE | 6-151 | 97 |
| | PQ | PLUTONE PU | 8-76 | 98 |
| | PF | PLUTONE PF | 14-102 | 99 |

| MANGUERA HOSE | CÓD. CODE | SECCIÓN SECTION | GAMMA ØINT. MM Ø INT. RANGE MM | PÁG. PG. |
|--------------------------------------------------|-----------------|-------------------------------------------------|--------------------------------|----------|
| | B2 | PLUTONE BIO | 6-151 | 100 |
| | B3 | PLUTONE PRESS BIO | 10-102 | 101 |
| | B1 | ARIANNA BIO | 6-50 | 102 |
| | A5 | ARIANNA TA | 6-50 | 103 |
| | YO CH | CLEANWASH | 12 | 104 |
| | CR 01 | CRISTALLO NEW! | 3-25 | 105 |
| | SY 01 | SATURNO YELLOW | 19,1-200 | 106 |
| | NQ | NETTUNO | 13-304,8 | 107 |
| | NR | NETTUNO PU | 25-110 | 108 |
| | NQ EN | NETTUNO ENO | 13-304,8 | 109 |
| | BF | BACCO | 19,1-203,2 | 110 |
| | BS EN | SPIRALPRESS ENO | 38,1-203 | 111 |
| FARMACÉUTICO/ PHARMA | | | | |
| | PN | PLUTONE PU PRESS | 13-51 | 114 |
| | HA | PHARMAPRESS | 6,4-25,4 | 115 |
| | HS | PHARMASTEEL | 10-51 | 116 |
| | HK | PHARMASTEEL PRESS | 13-102 | 117 |
| | WK | SIL LIFE W | 12,7-101,6 | 118 |
| | CL N7 CL N9 | IPL CRYSTAL CLEAR-55 | 3,2-12,7 | 119 |
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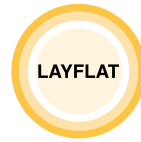
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Iconos de mangueras

Hoses icons



Manguera plana
Layflat



Resistente a altas temperaturas
High temperature resistant



Autoextinguible
Flame retardant



Bio compound
Bio compound



Alta presión
High pressure



Alta presión y temperaturas
High pressure and temperatures



Resistente a aceites
Oil proof



Aspiración ligera de material abrasivo
Light duty suction of abrasives



Aspiración ligera de material abrasivo de
grado alimentario
Light duty suction of food grade abrasives



Aspiración de material con alto
poder abrasivo
Heavy duty suction of abrasives



Aspiración de material de grado alimentario con alto poder abrasivo
Heavy duty suction of food grade abrasives



Aspiración de material de altísimo poder abrasivo
Extra heavy duty suction of abrasives



Aspiración fuerte de líquidos
Heavy duty suction of liquids



Superficie interior completamente lisa
Completely smooth bore



Superficie interior completamente lisa apta para el contacto con alimentos
Completely food grade smooth bore



Resistente al ataque microbico
Microbes resistant



Resistente a productos químicos
Resistant to chemicals



Resistente a la abrasión
Abrasion resistant



Espesor de pared constante 0,4 mm
Constant wall thickness 0,4 mm



Espiral de acero galvanizado
Zinc plated steel spiral



Espiral de acero cobreado
Copper plated steel spiral



Espiral de acero recubierta di TPU
Tpu coated steel spiral



Goma TPE-S de grado alimentario
Food grade tpe-s



Producto más popular
Most popular product



Formulación especial antiolor
Odorsafe formulation



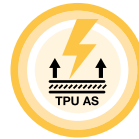
Silicona curada platino
Platinum cured silicone



Estructura especial
Special construction



Goma TPE-S grado farmaceutico
Pharma grade tpe-s



TPU con propiedades antiestáticas permanentes
Tpu with permanent antistatic properties



TPU con propiedades electroconductoras permanentes
Tpu with permanent electrical conductive properties



PVC / NBR
PVC / NBR



Flexibilidad elevada
Highly flexible



Muy flexible y ligero
Highly flexible and light

Agricultura / Agriculture



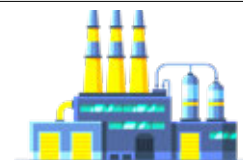
Construcción / Construction



Alimentación / Food



Industrias / Industry



Líquidos / Fluids handling



Industria naval / Shipyard



Náutica / Marine



Química y carburantes / Chemical, oils and fuel



Farmacéutica / Pharmaceutical



Bombeo y aspiración de aguas residuales / Waste Management



Madera / Woodworking





GUÍA DE SELECCIÓN DE MANGUERAS PRODUCT SELECTION GUIDE

ESTRUCTURA DE LA MANGUERA/CONSTRUCTION

| TUBO | Cód. | PAG. | TPU EST | TPU ET | PVC | PVC/NBR | BIO PVC | TPE-S | SILICONA | ESPIRAL DE ACERO | ESPIRAL DE ACERO INOXIDABLE | ESPIRAL DE PVC RÍGIDO | HILO DE POLIESTER | INTERIOR LISO | TRANSP. | PARED AS | AS CON HILO DE COBRE |
|----------------------|---------|------|---------|--------|-----|---------|---------|-------|----------|------------------|-----------------------------|-----------------------|-------------------|---------------|---------|----------|----------------------|
| HOSE | CODE | PAG. | TPU EST | TPU ET | PVC | PVC/NBR | BIO PVC | TPE-S | SILICONE | STEEL SPIRAL | INOX SPIRAL | PVC SPIRAL | POLYESTER YARN | SMOOTH | CLEAR | AS WALL | AS COPPER WIRE |
| APOLLO OIL | OI 01 | | | | | X | | | | | | X | | X | | | X |
| APOLLO NL1 | A1 01 | | | | X | | | | | | | X | | X | | | X |
| APOLLO NL 1 OIL | A1 09 | | | | X | X | | | | | | X | | X | | | X |
| APOLLO SE | AX 01 | | | | X | | | | | | | X | | X | | | X |
| APOLLO SUPERFLEX | AS 01 | | | | | X | | | | | | X | | X | | | X |
| APOLLO SUPERFLEX 2 | SF 01 | | | | | X | | | | | | X | | X | | | X |
| ARIANNA 20 BAR | YV 01 | | | | X | | | | | | | | X | X | | | |
| ARIANNA 40 BAR | YQ 01 | | | | X | | | | | | | | X | X | | | |
| ARIANNA 80 BAR | YO 01 | | | | X | | | | | | | | X | X | | | |
| ARIANNA BIO | B1 01 | | | | | | X | | | | | | X | X | X | | |
| ARIANNA PU | AU 01 | | X | | | | | | | | | | X | X | | | |
| ARIANNA TA | AT 01 | | | | X | | | | | | | | X | X | X | | |
| ARIANNA TA FUEL | AT 11 | | | | X | | | | | | | | X | X | | | |
| BACCO | BF 01 | | | | X | | | | | | | X | | X | X | | X |
| CLEANWASH | YO CH | | | | X | | | | | | | | X | X | | | |
| CRISTALLO | CR 01 | | | | X | | | | | | | | | X | X | | |
| EOLO | EO 01 | | | | X | | | | | | | X | | X | | | X |
| EOLO PVC AF | EF 75 | | | | X | | | | | | | X | | X | | | X |
| EOLO HT 400°C | H4 01 | | | | | | | | | X | | | X | | | | |
| EOLO HT 450°C | H5 01 | | | | | | | | | X | | | X | | | | |
| EOLO HT 180°C | HI 01 | | X | | | | | | | X | | | X | | | | |
| EOLO CLIP HYPALON | EY 01 | | | | | | | | | X | | | | | | | |
| EOLO L | EL 01 | | | | X | | | | | | | X | | X | | | X |
| EOLO PU AF | FF01 | | | X | | | | | | | | X | | X | X | | X |
| EOLO PU EST | OU 01 | | X | | | | | | | | | X | | X | X | | X |
| EOLO PU EST ASW | OU 86 | | X | | | | | | | | | X | | X | X | X | X |
| EOLO PU FOOD | EU 01 | | | X | | | | | | | | X | | X | X | | X |
| EOLO PUP EST | OP 01 | | X | | | | | | | | | X | | X | X | | X |
| EOLO PUP FOOD | EP 01 | | | X | | | | | | | | X | | X | X | | X |
| EOLO SE | EE 01 | | | | X | | | | | | | X | | X | | | X |
| EOLO SL | ES 01 | | | | X | | | | | | | X | | X | | | |
| EOLO TERMORESISTENTE | TR 01 | | | | X | | | | | X | | | X | | | | |
| GIOVE SE | GI 06 | | | | X | | | | | | | X | | X | | | X |
| IPL CRYSTAL-CLEAR55 | CL09-07 | | | | | | | X | | | | | | X | | | |
| MARTE A.O. | MT 01 | | | | X | | | | | | | X | | X | | | X |
| MERCURIO M | MM 01 | | | | X | | | | | | | | X | X | | | |
| NAUTILUS ODOR PROOF | LU 01 | | | | X | | | | | | | X | | X | | | |
| NETTUNO ENO | NQ EN | | | | X | | | | | | | X | | X | X | | X |
| NETTUNO | NQ 01 | | | | X | | | | | | | X | | X | X | | X |
| NETTUNO PU | NR 01 | | X | | X | | | | | | | X | | X | X | | X |
| NETTUNO SE | NX NF | | | | X | | | | | | | X | | X | X | | X |
| NEXT 07 | N7 01 | | X | | | | | | | X | | | | X | X | X | |
| NEXT 07 ET | N7 ET | | | X | | | | | | | X | | | X | X | X | |
| NEXT 09 | N9 01 | | X | | | | | | | X | | | | X | X | X | |
| NEXT 09 ET | N9 ET | | | X | | | | | | | X | | | X | X | X | |
| NEXT 15 | N5 01 | | X | | | | | | | X | | | | X | X | X | |
| NEXT 15 ET | N5 ET | | | X | | | | | | | X | | | X | X | X | |

| PROPIEDADES FÍSICAS Y MECÁNICAS/PHYSICAL AND MECHANICAL PROPERTIES | | | | | | | | | | | | | |
|--------------------------------------------------------------------|----------|------------------------------|----|------------------|---------------------------|-----------------------------|-----------------------------|---------------------|--------------|-----------------------|---------|------|---------------------|
| MATERIAL EL PERMANENTE | FLEXIBLE | RESISTENCIA AL APLASTAMIENTO | HT | AUTO-EXTINGUIBLE | RESISTENCIA A LA ABRASIÓN | RESISTENCIA A LOS MICROBIOS | RESISTENCIA A LA HIDRÓLISIS | CALIDAD ALIMENTARIA | USP CLASS VI | MANGUERA | CÓD. | PÁ. | RESISTENCIA QUÍMICA |
| CONDUCTIVE MATERIAL | FLEX | CRUSH PROOF | HT | FLAME RET. | ABRASION | MICROBES | HYDROLYSIS | FOODGRADE | | HOSE | CODE | PAG. | CHEM. RESIST. |
| | *** | *** | | | ** | | | | | APOLLO OIL | OI 01 | | |
| | *** | *** | | | ** | | | | | APOLLO NL1 | A1 01 | | |
| | *** | *** | | | ** | | | | | APOLLO NL 1 OIL | A1 09 | | |
| | *** | *** | | | ** | | | | | APOLLO SE | AX 01 | | |
| | **** | *** | | | ** | | | | | APOLLO SUPER-FLEX | AS 01 | | |
| | **** | *** | | | ** | | | | | APOLLO SUPER-FLEX 2 | SF 01 | | |
| | **** | | | | ** | | | | | ARIANNA 20 BAR | YV 01 | | |
| | **** | | | | ** | | | | | ARIANNA 40 BAR | YQ 01 | | |
| | **** | | | | ** | | | | | ARIANNA 80 BAR | YO 01 | | |
| | **** | | | | ** | | | X | | ARIANNA BIO | B1 01 | | |
| | **** | | | | **** | X | X | X | | ARIANNA PU | AU 01 | | |
| | **** | | | | ** | | | X | | ARIANNA TA | AT 01 | | |
| | **** | | | | ** | | | | | ARIANNA TA FUEL | AT 11 | | |
| | *** | *** | | | ** | | | X | | BACCO | BF 01 | | |
| | **** | | | | ** | | | X | | CLEANWASH | YO CH | | |
| | **** | | | | | | | X | | CRISTALLO | CR 01 | | |
| | **** | | | | ** | | | | | EOLO | EO 01 | | |
| | **** | ** | | X | ** | | | | | EOLO PVC AF | EF 75 | | |
| | **** | ** | X | X | ** | | | | | EOLO HT 400°C | H4 01 | | |
| | **** | ** | X | X | ** | | | | | EOLO HT 450°C | H5 01 | | |
| | **** | | X | X | ** | | | | | EOLO HT 180°C | HI 01 | | |
| | **** | ** | X | X | ** | | | | | EOLO CLIP HYPALON | EY 01 | | |
| | **** | | | | ** | | | | | EOLO L | EL 01 | | |
| | **** | | | X | **** | X | X | | | EOLO PU AF | FF01 | | |
| | **** | | | | **** | | | | | EOLO PU EST | OU 01 | | |
| | **** | | | | **** | | | | | EOLO PU EST ASW | OU 86 | | |
| | **** | | | | **** | X | X | X | | EOLO PU FOOD | EU 01 | | |
| | **** | | | | **** | | | | | EOLO PUP EST | OP 01 | | |
| | **** | | | | **** | X | X | X | | EOLO PUP FOOD | EP 01 | | |
| | **** | | | | ** | | | | | EOLO SE | EE 01 | | |
| | **** | | | | ** | | | | | EOLO SL | ES 01 | | |
| | **** | | X | X | ** | | | | | EOLO TERMORE-SISTENTE | TR 01 | | |
| | ** | *** | | | ** | | | | | GIOVE SE | GI 06 | | |
| | **** | ** | | | ** | | | X | X | IPL CRYSTAL-CLEAR55 | CL09-07 | | |
| | ** | *** | | | ** | | | | | MARTE A.O. | MT 01 | | |
| | X | X | | | | | X | | | MERCURIO M | MM 01 | | |
| | *** | *** | | | ** | | | | | NAUTILUS ODOR PROOF | LU 01 | | |
| | *** | | | | ** | | | X | | NETTUNO ENO | NQ EN | | |
| | *** | | | | ** | | | X | | NETTUNO | NQ 01 | | |
| | *** | *** | | | **** | X | X | X | | NETTUNO PU | NR 01 | | |
| | **** | ** | | | ** | | | | | NETTUNO SE | NX NF | | |
| | **** | ** | | | **** | | X | | | NEXT 07 | N7 01 | | |
| | **** | ** | | | **** | X | X | X | | NEXT 07 ET | N7 ET | | |
| | **** | ** | | | **** | | X | | | NEXT 09 | N9 01 | | |
| | **** | ** | | | **** | X | X | X | | NEXT 09 ET | N9 ET | | |
| | **** | *** | | | **** | | X | | | NEXT 15 | N5 01 | | |
| | **** | *** | | | **** | X | X | X | | NEXT 15 ET | N5 ET | | |

Consulte la tabla de la pág. 110 a la pág. 114 / see the chart from page 110 to page 114 / Lesen Sie die Tabelle (S. 110-114)

ESTRUCTURA DE LA MANGUERA/CONSTRUCTION

| TUBO | Cód. | PAG. | TPU EST | TPU ET | PVC | PVC/NBR | BIO PVC | TPE-S | SILICONA | ESPIRAL DE ACERO | ESPIRAL DE ACERO INOXIDABLE | ESPIRAL DE PVC RÍGIDO | HILO DE POLIÉSTER | INTERIOR LISO | TRANSP. | PARED AS | AS CON HILO DE COBRE |
|--------------------|-------|------|---------|--------|-----|---------|---------|-------|----------|------------------|-----------------------------|-----------------------|-------------------|---------------|---------|------------------------|----------------------|
| HOSE | CODE | PAG. | TPU EST | TPU ET | PVC | PVC/NBR | BIO PVC | TPE-S | SILICONE | STEEL SPIRAL | INOX SPIRAL | PVC SPIRAL | POLYESTER YARN | SMOOTH | CLEAR | AS WALL | AS COPPER WIRE |
| PHARMAPRESS | HA 01 | | | | | | | X | | | | | X | X | X | | |
| PHARMASTEEL | HS 01 | | | | | | | X | | | X | | | X | X | | |
| PHARMASTEEL PRESS | HK 01 | | | | | | | X | | | X | | X | X | X | | |
| PLUTONE A | PY 01 | | | | X | | | | | X | | | | X | X | | |
| PLUTONE A SE | PY 06 | | | | X | | | | | X | | | | X | X | | |
| PLUTONE BIO | B2 01 | | | | | | X | | | X | | | | X | X | | |
| PLUTONE PF | PF 01 | | | | | | | X | | X | | | X | X | | | |
| PLUTONE PK | PK 01 | | | | | | | X | | X | | | X | X | | | |
| PLUTONE PO | PH 01 | | | | X | X | | | | X | | | X | X | | | X |
| PLUTONE PRESS BIO | B3 01 | | | | | | X | | | X | | | X | X | X | | |
| PLUTONE PU | PQ 01 | | | X | | | | | | | X | | | X | X | | |
| PLUTONE PU PRESS | PN 01 | | | X | | | | | | | X | | X | X | X | | |
| PLUTONE PW | PW 01 | | | | X | | | | | X | | | X | X | | | |
| SATURNO AQUAPOOL | QP 01 | | | | X | | | | | | | X | X | X | | | |
| SATURNO IDRO SE | SI 06 | | | | X | | | | | | | X | | X | X | | |
| SATURNO L | XL 01 | | | | X | | | | | | | X | | X | | | X |
| SATURNO L SE | XL 06 | | | | X | | | | | | | X | | X | | | X |
| SATURNO YELLOW | SY 01 | | | | X | | | | | | | X | | X | | | X |
| SIL - LIFE W | WK 01 | | | | | | | | X | | X | | X | X | | | |
| SILDUCT 2S | P4 35 | | | | | | | | X | X | | | X | | | | |
| SPIRALPRESS ENO | BS EN | | | | X | | | | | | | X | X | X | X | | |
| SPIRALPRESS OIL | SQ 01 | | | | | X | | | | | | X | X | X | | | |
| SPIRALPRESS WT | WT 01 | | | | X | | | | | | | X | X | X | X | | |
| URANO HD SUPER | UH 01 | | X | | X | | | | | | | X | | X | X | | X |
| URANO PU | UR 01 | | X | | X | | | | | | | X | | X | X | | X |
| VULCANO 04 ET | VE 01 | | | X | | | | | | X | | | | | X | X | |
| VULCANO AF PLUS | UF 07 | | | X | | | | | | X | | | | | X | | |
| VULCANO 09 AF | U9 01 | | | X | | | | | | X | | | | | X | | |
| VULCANO 09 EL | EB 01 | | X | | | | | | | X | | | | | | | |
| VULCANO 09 EST | VB 01 | | X | | | | | | | X | | | | | X | A PETICIÓN/ ON REQUEST | |
| VULCANO 09 ET | VK 01 | | | X | | | | | | X | | | | | X | | |
| VULCANO 12 ET | VO 01 | | | X | | | | | | X | | | | | X | | |
| VULCANO 15 EL | EC 01 | | X | | | | | | | X | | | | | | | |
| VULCANO 15 EST | VC 01 | | X | | | | | | | X | | | | | X | A PETICIÓN/ ON REQUEST | |
| VULCANO 15 ET | VI 01 | | | X | | | | | | X | | | | | X | | |
| VULCANO M FR | VM FR | | X | | | | | | | X | | | | | X | | |
| VULCANO R FR | VR FR | | X | | | | | | | X | | | | | X | | |
| VULCANO S1 | W4 01 | | X | | | | | | | X | | | | | X | | |
| VULCANO® SC 0,75 | UT 01 | | | X | | | | | | X | | | | | | | |
| VULCANO® SC 1,5 | VQ 01 | | | X | | | | | | X | | | | | X | | |
| VULCANO® SC 1,75 | VJ 01 | | X | | | | | | | X | | | | | X | | |
| VULCANO STONE | TH 01 | | X | | | | | | | X | | | | | X | | |
| VULCANO STONE PLUS | TH 07 | | X | | | | | | | X | | | | | X | | |
| VULCANO Z | VZ 01 | | X | | | | | | | X | | | | | X | | |
| VULCANO ZR | ZR 01 | | X | | | | | | | X | | | | | X | | |
| VULCANO PVC AF | VP 04 | | | | X | | | | | X | | | | | | | |
| VULCANO TPR-A | VT 01 | | | | | | | X | | X | | | | | | | |
| ZEUS PU EST | OZ 01 | | X | | | | | | | | | X | | X | X | | X |
| ZEUS PU FOOD | ZE 01 | | | X | | | | | | | | X | | X | X | | X |

| PROPIEDADES FÍSICAS Y MECÁNICAS/PHYSICAL AND MECHANICAL PROPERTIES | | | | | | | | | | | | | |
|--------------------------------------------------------------------|----------|------------------------------|----|------------------|---------------------------|-----------------------------|-----------------------------|---------------------|--------------|--------------------|-------|------|---------------------|
| MATERIAL EL PERMANENTE | FLEXIBLE | RESISTENCIA AL APLASTAMIENTO | HT | AUTO-EXTINGUIBLE | RESISTENCIA A LA ABRASIÓN | RESISTENCIA A LOS MICROBIOS | RESISTENCIA A LA HIDRÓLISIS | CALIDAD ALIMENTARIA | USP CLASS VI | MANGUERA | CÓD. | PÁ. | RESISTENCIA QUÍMICA |
| CONDUCTIVE MATERIAL | FLEX | CRUSH PROOF | HT | FLAME RET. | ABRASION | MICROBES | HYDROLYSIS | FOODGRADE | | HOSE | CODE | PAG. | CHEM. RESIST. |
| | **** | | | | ** | | | X | X | PHARMAPRESS | HA 01 | | |
| | **** | *** | | | ** | | | X | X | PHARMASTEEL | HS 01 | | |
| | *** | *** | | | ** | | | X | X | PHARMASTEEL PRESS | HK 01 | | |
| | *** | *** | | | ** | | | X | | PLUTONE A | PY 01 | | |
| | **** | *** | | | ** | | | X | | PLUTONE A SE | PY 06 | | |
| | **** | *** | | | ** | | | X | | PLUTONE BIO | B2 01 | | |
| | *** | *** | | | ** | | | X | | PLUTONE PF | PF 01 | | |
| | *** | **** | | | ** | | | | | PLUTONE PK | PK 01 | | |
| | **** | *** | | | ** | | | | | PLUTONE PO | PH 01 | | |
| | *** | *** | | | ** | | | X | | PLUTONE PRESS BIO | B3 01 | | |
| | *** | *** | | | **** | X | X | X | | PLUTONE PU | PQ 01 | | |
| | *** | *** | | | **** | X | X | X | | PLUTONE PU PRESS | PN 01 | | |
| | **** | *** | | | ** | | | | | PLUTONE PW | PW 01 | | |
| | *** | *** | | | ** | | | | | SATURNO AQUAPOOL | QP 01 | | |
| | **** | *** | | | ** | | | | | SATURNO IDRO SE | SI 06 | | |
| | ** | ** | | | ** | | | | | SATURNO L | XL 01 | | |
| | **** | ** | | | ** | | | | | SATURNO L SE | XL 06 | | |
| | *** | ** | | | ** | | | | | SATURNO YELLOW | SY 01 | | |
| | *** | *** | X | | ** | X | X | X | X | SIL - LIFE W | WK 01 | | |
| | **** | ** | X | | ** | | | | | SILDUCT 2S | P4 35 | | |
| | *** | **** | | | ** | | | X | | SPIRALPRESS ENO | BS EN | | |
| | *** | **** | | | ** | | | X | | SPIRALPRESS OIL | SQ 01 | | |
| | *** | **** | | | ** | | | X | | SPIRALPRESS WT | WT 01 | | |
| | ** | **** | | | **** | X | X | | | URANO HD SUPER | UH 01 | | |
| | ** | **** | | | **** | X | X | | | URANO PU | UR 01 | | |
| | **** | ** | | | **** | X | X | X | | VULCANO 04 ET | VE 01 | | |
| | **** | ** | | X | **** | X | X | | | VULCANO AF PLUS | UF 07 | | |
| | **** | ** | | X | **** | X | X | | | VULCANO 09 AF | U9 01 | | |
| x | **** | ** | | | **** | | | | | VULCANO 09 EL | EB 01 | | |
| | **** | ** | | | **** | | X | | | VULCANO 09 EST | VB 01 | | |
| | **** | ** | | | **** | X | X | X | | VULCANO 09 ET | VK 01 | | |
| | **** | ** | | | **** | X | X | X | | VULCANO 12 ET | VO 01 | | |
| x | **** | ** | | | *** | | | | | VULCANO 15 EL | EC 01 | | |
| | **** | ** | | | **** | | X | | | VULCANO 15 EST | VC 01 | | |
| | **** | ** | | | **** | X | X | X | | VULCANO 15 ET | VI 01 | | |
| | **** | ** | | | **** | | | | | VULCANO M FR | VM FR | | |
| | **** | ** | | | **** | | | | | VULCANO R FR | VR FR | | |
| | **** | ** | | | **** | | | | | VULCANO S1 | W4 01 | | |
| | **** | ** | | | **** | X | X | | | VULCANO® SC 0,75 | UT 01 | | |
| | **** | ** | | | **** | X | X | | | VULCANO® SC 1,5 | VQ 01 | | |
| | **** | ** | | | **** | X | X | | | VULCANO® SC 1,75 | VJ 01 | | |
| | ** | **** | | | **** | X | X | | | VULCANO STONE | TH 01 | | |
| | ** | **** | | | **** | X | X | | | VULCANO STONE PLUS | TH 07 | | |
| | **** | ** | | | **** | | | | | VULCANO Z | VZ 01 | | |
| | **** | ** | | | **** | | | | | VULCANO ZR | ZR 01 | | |
| | **** | ** | | | ** | | | | | VULCANO PVC AF | VP 04 | | |
| | **** | ** | | | ** | | | | | VULCANO TPR-A | VT 01 | | |
| | **** | | | | **** | | | | | ZEUS PU EST | OZ 01 | | |
| | *** | ** | | | *** | X | X | X | | ZEUS PU FOOD | ZE 01 | | |

Consulte la tabla de la pág. 110 a la pág. 114 / see the chart from page 110 to page 114 / Lesen Sie Tabelle (S. 110-114)

VULCANO® ZR-R FR

Cod. ZR /VR FR



**LOS MÁS VENDIDOS PARA LA ASPIRACIÓN
DE POLVO ABRASIVO EN LA INDUSTRIA**

Best sellers for industrial suction of abrasive media



VULCANO® Z
VULCANO® ZR
VULCANO® S1
VULCANO® M FR
VULCANO® R FR
VULCANO® 09
VULCANO® 15
VULCANO® STONE
VULCANO® STONE PLUS
VULCANO® 09 EL
VULCANO® 15 EL
VULCANO® SC 0,75
VULCANO® SC 1,5
VULCANO® SC 1,75
NEXT 07
NEXT 09
NEXT 15
EOLO PU EST
EOLO PU EST ASW
EOLO PUP EST
ZEUS PU EST
URANO PU
URANO HD SUPER
ARIANNA PU

ABRASIÓN ABRASION



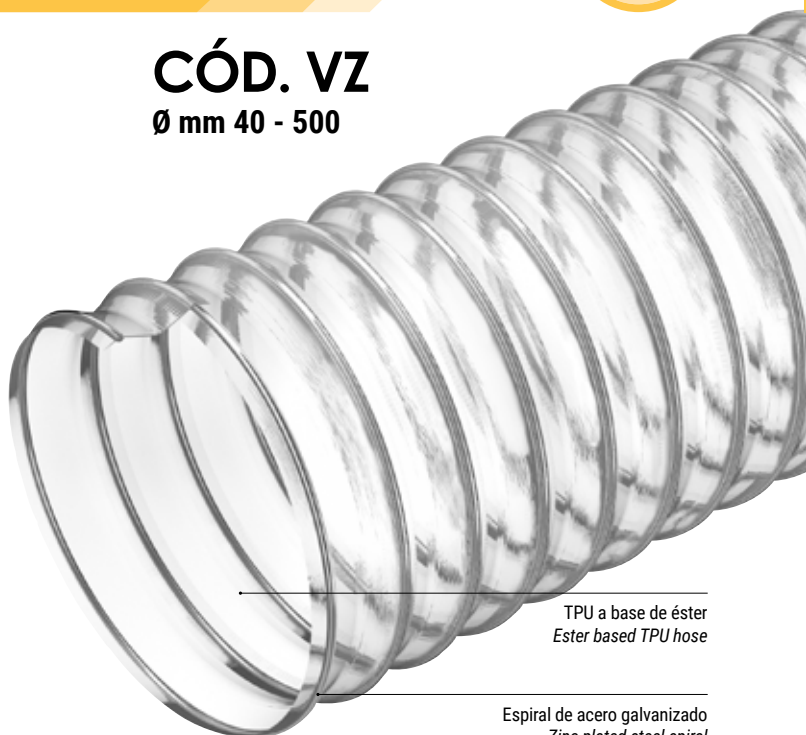
ES Tubo transparente de TPU a base de éster reforzado con una espiral de acero galvanizado; espesor de pared de 0.35 mm a 0.50 mm. Óptima flexibilidad y comprimibilidad (aprox. 5:1) para facilitar el transporte y el almacenaje. Óptima resistencia a la abrasión, a los aceites minerales, al ozono, al los rayos UV, al envejecimiento y a los agentes atmosféricos. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

• Industria de la madera, pequeños aspiradores industriales y para plantas industriales de aspiración ligera de material abrasivo. Usado como vaina de protección.

EN Transparent ester-based TPU hose reinforced with zinc-plated steel spiral. Thickness from 0,35 mm to 0,50 mm. Very flexible and compressible (approx. 5:1) for easy transport and storage. Good resistance to abrasion, bending, mineral oils, ageing, weathering, UV rays and ozone. Can be made conductive ($R < 10^2$ Ohm/m) by earthing the spiral.

• Woodworking and carpentry, dedusting, small industrial vacuum cleaners and for light suction of abrasive material; used as a protective sleeve.

CÓD. VZ
Ø mm 40 - 500



TPU a base de éster
Ester based TPU hose

Espiral de acero galvanizado
Zinc plated steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|--------|---------|--------------|--------|--------------------|---------------|-------------|----------------|-----------------------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ | |
| VZ010400000000* | 40 | 0,35 | 185 | 0,40 | 20 | 20 | 20 | 0,09 | - |
| VZ010500000000* | 50 | 0,35 | 225 | 0,40 | 25 | 20 | 20 | 0,11 | - |
| VZ010510000000 | 51 | 0,35 | 230 | 0,40 | 26 | 20 | 20 | 0,11 | - |
| VZ010600000000 | 60 | 0,35 | 275 | 0,40 | 30 | 20 | 20 | 0,13 | - |
| VZ010630000000 | 63 | 0,35 | 285 | 0,40 | 32 | 20 | 20 | 0,18 | - |
| VZ010650000000* | 65 | 0,35 | 295 | 0,40 | 33 | 20 | 20 | 0,19 | - |
| VZ010700000000 | 70 | 0,35 | 360 | 0,40 | 35 | 20 | 20 | 0,20 | - |
| VZ010760000000 | 76 | 0,35 | 385 | 0,40 | 38 | 20 | 20 | 0,22 | - |
| VZ010800000000 | 80 | 0,35 | 405 | 0,40 | 40 | 20 | 20 | 0,23 | F2 W2 076.0 090.0 |
| VZ010820000000* | 82 | 0,35 | 415 | 0,40 | 41 | 20 | 20 | 0,23 | - |
| VZ010900000000 | 90 | 0,35 | 455 | 0,40 | 45 | 20 | 20 | 0,29 | - |
| VZ011000000000 | 100 | 0,40 | 510 | 0,30 | 50 | 15 | 15 | 0,32 | - |
| VZ011020000000 | 102 | 0,40 | 520 | 0,30 | 51 | 15 | 15 | 0,32 | - |
| VZ011040000000* | 104 | 0,40 | 530 | 0,30 | 52 | 15 | 15 | 0,33 | - |
| VZ011100000000 | 110 | 0,40 | 560 | 0,30 | 55 | 15 | 15 | 0,35 | F2 W2 100.0 127.0 |
| VZ011200000000 | 120 | 0,40 | 605 | 0,25 | 60 | 15 (JP 10/15) | 15 | 0,37 | - |
| VZ011270000000 | 127 | 0,40 | 640 | 0,25 | 64 | 15 | 15 | 0,39 | - |
| VZ011300000000 | 130 | 0,40 | 660 | 0,20 | 65 | 15 | 15 | 0,41 | - |
| VZ011400000000 | 140 | 0,40 | 710 | 0,20 | 70 | 15 | 15 | 0,66 | - |
| VZ011500000000 | 150 | 0,40 | 755 | 0,20 | 75 | 15 | 15 | 0,70 | - |
| VZ011520000000 | 152 | 0,40 | 765 | 0,20 | 76 | 15 | 15 | 0,71 | - |
| VZ011600000000 | 160 | 0,45 | 895 | 0,15 | 80 | 15 | 15 | 0,75 | F2 W2 130.0 190.0 |
| VZ011650000000* | 165 | 0,45 | 925 | 0,15 | 83 | 15 | 15 | 0,77 | - |
| VZ011700000000* | 170 | 0,45 | 950 | 0,15 | 85 | 15 | 15 | 0,94 | - |
| VZ011800000000 | 180 | 0,45 | 1005 | 0,15 | 90 | 15 | 15 | 0,99 | - |
| VZ012000000000 | 200 | 0,45 | 1110 | 0,10 | 100 | 15 | 15 | 1,10 | - |
| VZ012030000000 | 203 | 0,45 | 1125 | 0,10 | 102 | 15 | 15 | 1,11 | - |
| VZ012100000000* | 210 | 0,45 | 1160 | 0,10 | 105 | 10 | 10 | 0,110 | F2 W2 200.0 230.0 |
| VZ012200000000 | 220 | 0,45 | 1215 | 0,10 | 110 | 10 | 10 | 0,120 | - |
| VZ012280000000* | 228 | 0,45 | 1260 | 0,10 | 114 | 10 | 10 | 0,129 | - |
| VZ012500000000 | 250 | 0,50 | 1310 | 0,10 | 125 | 10 m compr. | 10 m compr. | 0,154 | - |
| VZ012540000000 | 254 | 0,50 | 1330 | 0,10 | 127 | 10 m compr. | 10 m compr. | 0,159 | - |
| VZ012790000000* | 279 | 0,50 | 1460 | 0,08 | 140 | 10 m compr. | 10 m compr. | 0,190 | - |
| VZ013000000000 | 300 | 0,50 | 1565 | 0,08 | 150 | 10 m compr. | 10 m compr. | 0,218 | F2 W2 250.0 330.0 |
| VZ013050000000 | 305 | 0,50 | 1590 | 0,08 | 153 | 10 m compr. | 10 m compr. | 0,225 | - |
| VZ013150000000* | 315 | 0,50 | 1640 | 0,07 | 158 | 10 m compr. | 10 m compr. | 0,240 | - |
| VZ013500000000 | 350 | 0,50 | 1815 | 0,07 | 175 | 10 m compr. | 10 m compr. | 0,293 | - |
| VZ014000000000 | 400 | 0,50 | 2125 | 0,06 | 200 | 10 m compr. | 10 m compr. | 0,379 | F2 W2 350.0 410.0 |
| VZ014500000000* | 450 | 0,50 | 2640 | 0,06 | 225 | 6 m compr. | 6 m compr. | 0,347 | - |
| VZ015000000000* | 500 | 0,50 | 2925 | 0,06 | 250 | 6 m compr. | 6 m compr. | 0,426 | - |



F2 W2 p. 122
Abrazaderas doble puente W2 / Double bridge W2

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



VULCANO ZR (cód. ZR) p. 15

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.



(ES) **Tubo transparente de TPU a base de éster reforzado con espiral de acero cobreado;** espesor de pared de 0.35 mm a 0.50 mm. Óptima flexibilidad y comprimibilidad (aprox. 5:1) para facilitar el transporte y el almacenaje. Conductivo ($R < 10^2 \text{ Ohm/m}$) conectando la espiral a tierra. Óptima resistencia a la abrasión, a los aceites minerales, al ozono, a los rayos UV, al envejecimiento y a los agentes atmosféricos.

• Industria de la madera, pequeños aspiradores industriales y para plantas industriales de aspiración ligera de material abrasivo. Usado como vaina de protección.

(EN) **Transparent ester-based TPU hose reinforced with copper-plated steel spiral.** Thickness from 0.35 mm to 0,50 mm. Very flexible and compressible (approx. 5:1) for easy transport and storage. Good resistance to abrasion, bending, mineral oils, ageing, weathering, UV rays and ozone. Can be made conductive ($R < 10^2 \text{ Ohm/m}$) by earthing the spiral.

• Woodworking and carpentry, dedusting, small industrial vacuum cleaners and for light suction of abrasive material; used as a protective sleeve.

CÓD. ZR
Ø mm 40 - 500



TPU a base de éster
Ester based TPU hose

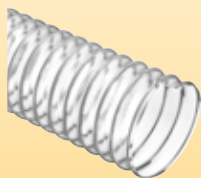
Espiral de acero cobreado
Copper plated steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|--------------------------------|-----------------|---------|--------------|--------|--------------------|--------------|---------------|----------------|-----------------------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ | |
| | en stock available on stock | ZR010400000000* | 40 | 0,35 | 160 | 0,40 | 20 | 20 | 0,09 | - |
| | | ZR010500000000 | 50 | 0,35 | 195 | 0,40 | 25 | 20 | 0,11 | - |
| | | ZR010600000000 | 60 | 0,35 | 240 | 0,40 | 30 | 20 | 0,13 | - |
| | | ZR010630000000 | 63 | 0,35 | 250 | 0,40 | 32 | 20 | 0,18 | - |
| | | ZR010650000000* | 65 | 0,35 | 260 | 0,40 | 33 | 20 | 0,19 | - |
| | | ZR010700000000 | 70 | 0,35 | 360 | 0,40 | 35 | 20 | 0,20 | - |
| | | ZR010760000000 | 76 | 0,35 | 385 | 0,40 | 38 | 20 | 0,22 | - |
| | | ZR010800000000 | 80 | 0,35 | 405 | 0,40 | 40 | 20 (JP 10/20) | 0,23 | - |
| | | ZR010820000000* | 82 | 0,35 | 415 | 0,40 | 41 | 20 | 0,23 | F2 W2 076.0 090.0 |
| | | ZR010900000000 | 90 | 0,35 | 455 | 0,40 | 45 | 20 | 0,29 | - |
| | | ZR011000000000 | 100 | 0,40 | 510 | 0,30 | 50 | 15 (JP 10/15) | 0,32 | - |
| | | ZR011020000000 | 102 | 0,40 | 520 | 0,30 | 51 | 15 | 0,32 | - |
| | | ZR011040000000* | 104 | 0,40 | 530 | 0,30 | 52 | 15 | 0,33 | - |
| | | ZR011100000000 | 110 | 0,40 | 560 | 0,30 | 55 | 15 | 0,35 | F2 W2 100.0 127.0 |
| | | ZR011150000000* | 115 | 0,40 | 580 | 0,25 | 58 | 15 | 0,36 | - |
| | | ZR011200000000 | 120 | 0,40 | 605 | 0,25 | 60 | 15 (JP 10/15) | 0,37 | - |
| | | ZR011270000000 | 127 | 0,40 | 640 | 0,25 | 64 | 15 | 0,39 | - |
| | | ZR011300000000 | 130 | 0,40 | 660 | 0,20 | 65 | 15 | 0,41 | - |
| | | ZR011400000000 | 140 | 0,40 | 710 | 0,20 | 70 | 15 | 0,66 | - |
| | | ZR011500000000 | 150 | 0,40 | 755 | 0,20 | 75 | 15 (JP 10/15) | 0,70 | - |
| | | ZR011520000000 | 152 | 0,40 | 765 | 0,20 | 76 | 15 | 0,71 | F2 W2 130.0 190.0 |
| | | ZR011600000000 | 160 | 0,45 | 895 | 0,15 | 80 | 15 | 0,75 | - |
| | | ZR011750000000* | 175 | 0,45 | 975 | 0,15 | 88 | 15 | 0,82 | - |
| | | ZR011800000000 | 180 | 0,45 | 1005 | 0,15 | 90 | 15 | 0,84 | - |
| | | ZR012000000000 | 200 | 0,45 | 1110 | 0,10 | 100 | 15 (JP 10/15) | 1,10 | - |
| | | ZR012030000000* | 203 | 0,45 | 1125 | 0,10 | 102 | 15 | 1,11 | - |
| | | ZR012100000000 | 210 | 0,45 | 1160 | 0,10 | 105 | 15 | 1,15 | F2 W2 200.0 230.0 |
| | | ZR012200000000 | 220 | 0,45 | 1215 | 0,10 | 110 | 15 | 1,20 | - |
| | | ZR012250000000* | 225 | 0,45 | 1240 | 0,10 | 113 | 15 | 1,22 | - |
| | | ZR012280000000* | 228 | 0,45 | 1260 | 0,10 | 114 | 10 | 1,24 | - |
| | | ZR012500000000 | 250 | 0,50 | 1310 | 0,10 | 125 | 10 | 1,36 | - |
| | | ZR012540000000* | 254 | 0,50 | 1330 | 0,10 | 127 | 10 | 1,38 | - |
| | | ZR012790000000* | 279 | 0,50 | 1460 | 0,08 | 140 | 10 | 1,51 | - |
| | | ZR013000000000 | 300 | 0,50 | 1565 | 0,08 | 150 | 10 | 1,61 | F2 W2 250.0 330.0 |
| | | ZR013050000000* | 305 | 0,50 | 1590 | 0,08 | 153 | 10 | 1,64 | - |
| | | ZR013150000000* | 315 | 0,50 | 1640 | 0,08 | 158 | 10 | 1,69 | - |
| | | ZR013250000000* | 325 | 0,50 | 1690 | 0,07 | 163 | 10 | 0,25 | - |
| | | ZR013500000000* | 350 | 0,50 | 1815 | 0,07 | 175 | 10 m compr. | 0,29 | F2 W2 350.0 410.0 |
| | | ZR014000000000* | 400 | 0,50 | 2125 | 0,06 | 200 | 10 m compr. | 0,38 | - |
| | | ZR014500000000* | 450 | 0,50 | 2640 | 0,06 | 225 | 6 m compr. | 0,35 | - |
| | | ZR015000000000* | 500 | 0,50 | 2925 | 0,06 | 250 | 6 m compr. | 0,43 | - |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES **Tubo transparente de TPU a base de éster reforzado con espiral de acero cobreado.** Espesor de pared constante de 0,4 mm en todos los diámetros. Robusto, flexible y comprimible (aprox 5:1) para facilitar el transporte y el almacenaje. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Óptima resistencia a la abrasión, a los aceites minerales, al ozono, a los rayos UV, al envejecimiento y a los agentes atmosféricos.

• Industria de la madera, pequeños aspiradores industriales y para plantas industriales de aspiración ligera de material abrasivo. Usado como vaina de protección.

EN **Transparent, ester-based TPU hose reinforced with a copper-plated steel spiral.** Constant wall thickness 0,4 mm on all diameters. Excellent strength, flexibility and compressibility (approx. 5:1) for easy transport and storage. Good resistance to abrasion, bending, mineral oils, ageing, weathering, UV radiation and ozone. Can be made conductive ($R < 10^2$ Ohm/m) by earthing the spiral.

• Carpentry and wood industry, dedusting, small industrial vacuum cleaners; for light extraction of abrasive dust and sawdust and used as a protective sleeve.

CÓD. W4
Ø mm 25-500

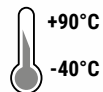


TPU a base de éster
Ester based TPU hose

Espirales de acero cobreado
Copper plated steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|----------------|---------|--------------|--------|--------------------|--------------|-------------|----------------|-----------------------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ₃ | |
| | W401025000000* | 25 | 0,4 | 130 | 0,4 | 25 | 20 | 0,05 | - |
| | W401030000000* | 30 | 0,4 | 155 | 0,4 | 25 | 20 | 0,07 | - |
| | W401032000000* | 32 | 0,4 | 160 | 0,4 | 25 | 20 | 0,07 | - |
| | W401035000000* | 35 | 0,4 | 175 | 0,4 | 30 | 20 | 0,08 | - |
| | W401038000000* | 38 | 0,4 | 190 | 0,4 | 30 | 20 | 0,08 | - |
| | W401040000000* | 40 | 0,4 | 195 | 0,4 | 32 | 20 | 0,09 | - |
| | W401045000000* | 45 | 0,4 | 220 | 0,4 | 36 | 20 | 0,10 | - |
| | W401051000000 | 51 | 0,4 | 205 | 0,4 | 40 | 20 | 0,11 | - |
| | W401060000000 | 60 | 0,4 | 240 | 0,4 | 50 | 20 | 0,17 | - |
| | W401063000000 | 63 | 0,4 | 250 | 0,4 | 55 | 20 | 0,18 | - |
| | W401065000000* | 65 | 0,4 | 255 | 0,4 | 56 | 20 | 0,19 | - |
| | W401070000000 | 70 | 0,4 | 360 | 0,4 | 60 | 20 | 0,20 | - |
| | W401076000000 | 76 | 0,4 | 390 | 0,4 | 65 | 20 | 0,22 | - |
| | W401080000000 | 80 | 0,4 | 410 | 0,4 | 65 | 20 | 0,23 | F2 W2 076.0 090.0 |
| | W401082000000* | 82 | 0,4 | 420 | 0,4 | 65 | 20 | 0,23 | - |
| | W401090000000 | 90 | 0,4 | 460 | 0,4 | 75 | 20 | 0,28 | - |
| | W401100000000* | 100 | 0,4 | 505 | 0,3 | 85 | 15 | 0,31 | - |
| | W401102000000 | 102 | 0,4 | 515 | 0,3 | 85 | 15 | 0,32 | - |
| | W401110000000 | 110 | 0,4 | 555 | 0,3 | 90 | 15 | 0,34 | F2 W2 100.0 127.0 |
| | W401115000000* | 115 | 0,4 | 580 | 0,3 | 95 | 15 | 0,35 | - |
| | W401120000000 | 120 | 0,4 | 600 | 0,25 | 100 | 15 | 0,37 | - |
| | W401127000000 | 127 | 0,4 | 635 | 0,25 | 105 | 15 | 0,39 | - |
| | W401130000000 | 130 | 0,4 | 650 | 0,2 | 105 | 15 | 0,40 | - |
| | W401140000000 | 140 | 0,4 | 700 | 0,2 | 115 | 15 | 0,64 | - |
| | W401152000000 | 152 | 0,4 | 755 | 0,2 | 125 | 15 | 0,69 | - |
| | W401160000000 | 160 | 0,4 | 870 | 0,15 | 130 | 15 | 0,73 | F2 W2 130.0 190.0 |
| | W401165000000* | 165 | 0,4 | 900 | 0,15 | 130 | 15 | 0,75 | - |
| | W401170000000* | 170 | 0,4 | 925 | 0,15 | 130 | 15 | 0,91 | - |
| | W401180000000 | 180 | 0,4 | 975 | 0,15 | 150 | 15 | 0,96 | - |
| | W401182000000* | 182 | 0,4 | 990 | 0,15 | 150 | 15 | 0,97 | - |
| | W401203000000 | 203 | 0,4 | 1105 | 0,1 | 165 | 15 | 1,09 | - |
| | W401220000000* | 220 | 0,4 | 1195 | 0,1 | 185 | 10 m compr. | 0,12 | F2 W2 200.0 230.0 |
| | W401228000000* | 228 | 0,4 | 1235 | 0,1 | 185 | 10 m compr. | 0,12 | - |
| | W401250000000* | 250 | 0,4 | 1350 | 0,1 | 210 | 10 m compr. | 0,15 | - |
| | W401254000000 | 254 | 0,4 | 1375 | 0,1 | 210 | 10 m compr. | 0,15 | - |
| | W401279000000* | 279 | 0,4 | 1505 | 0,08 | 230 | 10 m compr. | 0,18 | F2 W2 250.0 330.0 |
| | W401305000000 | 305 | 0,4 | 1645 | 0,08 | 250 | 10 m compr. | 0,22 | - |
| | W401315000000* | 315 | 0,4 | 1700 | 0,07 | 275 | 10 m compr. | 0,23 | - |
| | W401356000000* | 356 | 0,4 | 1915 | 0,07 | 300 | 10 m compr. | 0,29 | F2 W2 350.0 410.0 |
| | W401406000000* | 406 | 0,4 | 2180 | 0,06 | 350 | 10 m compr. | 0,38 | - |
| | W401450000000* | 450 | 0,4 | 2640 | 0,06 | 350 | 10 m compr. | 0,47 | - |
| | W401500000000* | 500 | 0,4 | 2930 | 0,06 | 350 | 10 m compr. | 0,57 | - |



F2 W2 p.122
Abrazaderas doble puente W2 / Double bridge W2

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



VULCANO 04 ET (cód. VE) p.86

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.
Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

(ES) Tubo translucido de TPU a base de éster, reforzado con una espiral de acero recubierta de TPU de color cobre para asegurar la máxima adhesión con la pared; Espesor de pared de 0,4 mm a 0,75 mm. **Flexibilidad elevada**, manejable, ligero y comprimible (5:1). Especialmente adecuado para aplicaciones dinámicas, permite más ciclos de curvatura que una manguera en espiral sin revestimiento. Óptima resistencia a la abrasión, a los aceites minerales, al ozono, a los rayos UV, al envejecimiento y a los agentes atmosféricos. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

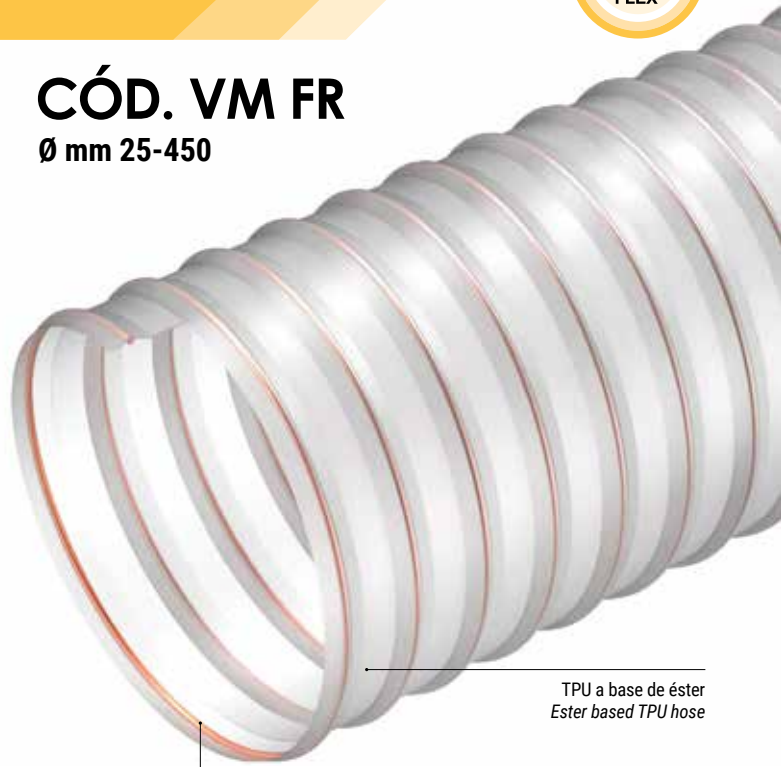
• Industria de la madera para aspiración de serrín, polvos abrasivos, y donde sea necesaria una alta flexibilidad incluso a bajas temperaturas.

(EN) Translucent, ester-based TPU hose reinforced with a copper-coloured TPU-coated steel spiral. Wall thickness from 0.4 mm to 0.75 mm. Lightweight, very flexible and compressible (approx. 5:1), it can be used in a wide range of applications due to its good abrasion resistance. Particularly suitable for dynamic applications, it allows more bending cycles than a conventional hose with a plain spiral.

• Resistant to mineral oils, weathering, UV rays and ozone. Can be made conductive ($R < 10^2$ Ohm/m) by earthing the spiral. Suction plants, ceramic and wood industry, suction of chips, sawdust, fumes and abrasive dust.

CÓD. VM FR

Ø mm 25-450



TPU a base de éster
Ester based TPU hose

Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral



FICHA TÉCNICA · TECHNICAL DATA



en stock
available on stock



F2 W2 p.122

Abrazaderas doble puente W2 / Double bridge W2

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



VULCANO R FR (cód. VR FR) p.18

| CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|-----------------|---------|--------------|--------|--------------------|--------------|---------------|----------------|-----------------------------|
| CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ | |
| VMFR0250000000* | 25 | 0,4 | 140 | 2 | 30 | 20 | 0,05 | - |
| VMFR0320000000 | 32 | 0,4 | 175 | 2 | 30 | 20 | 0,06 | - |
| VMFR0380000000 | 38 | 0,4 | 180 | 2 | 30 | 20 | 0,09 | - |
| VMFR0400000000 | 40 | 0,4 | 190 | 2 | 32 | 20 | 0,09 | - |
| VMFR0450000000* | 45 | 0,4 | 210 | 2 | 36 | 20 | 0,10 | - |
| VMFR0500000000* | 50 | 0,4 | 230 | 2 | 40 | 20 | 0,11 | - |
| VMFR0510000000 | 51 | 0,4 | 235 | 2 | 40 | 20 | 0,11 | - |
| VMFR0550000000* | 55 | 0,4 | 250 | 2 | 40 | 20 | 0,12 | - |
| VMFR0600000000 | 60 | 0,4 | 270 | 1,7 | 50 | 20 | 0,13 | - |
| VMFR0630000000 | 63 | 0,4 | 280 | 1,7 | 55 | 20 | 0,19 | - |
| VMFR0650000000* | 65 | 0,4 | 290 | 1,7 | 56 | 20 | 0,19 | - |
| VMFR0700000000 | 70 | 0,43 | 380 | 1,7 | 60 | 20 | 0,20 | - |
| VMFR0750000000* | 75 | 0,43 | 405 | 1,7 | 65 | 20 | 0,22 | - |
| VMFR0760000000 | 76 | 0,43 | 410 | 1,7 | 65 | 20 | 0,22 | - |
| VMFR0800000000 | 80 | 0,43 | 430 | 1,6 | 65 | 20 (JP 10) | 0,23 | F2 W2 076.0 090.0 |
| VMFR0900000000 | 90 | 0,43 | 480 | 1,6 | 75 | 20 | 0,29 | - |
| VMFR1000000000* | 100 | 0,53 | 540 | 1,3 | 85 | 15 | 0,32 | - |
| VMFR1020000000 | 102 | 0,53 | 550 | 1,3 | 85 | 15 (JP 10/15) | 0,32 | - |
| VMFR1100000000 | 110 | 0,53 | 590 | 1,2 | 90 | 15 | 0,35 | F2 W2 100.0 127.0 |
| VMFR1200000000 | 120 | 0,53 | 640 | 1 | 100 | 15 (JP 10) | 0,37 | - |
| VMFR1220000000* | 122 | 0,53 | 650 | 1 | 100 | 15 | 0,38 | - |
| VMFR1270000000 | 127 | 0,63 | 765 | 1 | 105 | 15 (JP 10) | 0,39 | - |
| VMFR1300000000* | 130 | 0,63 | 780 | 0,8 | 105 | 15 | 0,40 | - |
| VMFR1400000000 | 140 | 0,63 | 840 | 0,8 | 115 | 15 | 0,65 | - |
| VMFR1500000000* | 150 | 0,63 | 895 | 0,8 | 125 | 15 | 0,69 | F2 W2 130.0 190.0 |
| VMFR1520000000 | 152 | 0,63 | 910 | 0,8 | 125 | 15 | 0,70 | - |
| VMFR1600000000 | 160 | 0,63 | 955 | 0,7 | 130 | 15 | 0,73 | - |
| VMFR1800000000 | 180 | 0,63 | 1235 | 0,5 | 150 | 15 | 0,97 | - |
| VMFR2000000000* | 200 | 0,63 | 1365 | 0,4 | 165 | 15 | 1,08 | - |
| VMFR2030000000 | 203 | 0,63 | 1385 | 0,4 | 165 | 15 (JP 10) | 1,09 | F2 W2 200.0 230.0 |
| VMFR2280000000* | 228 | 0,63 | 1550 | 0,4 | 185 | 10 m compr. | 1,22 | - |
| VMFR2500000000* | 250 | 0,65 | 1845 | 0,4 | 210 | 10 m compr. | 1,33 | - |
| VMFR2540000000 | 254 | 0,65 | 1875 | 0,4 | 210 | 10 m compr. | 1,35 | - |
| VMFR2650000000* | 265 | 0,65 | 1955 | 0,4 | 220 | 10 m compr. | 1,41 | - |
| VMFR2790000000* | 279 | 0,65 | 2055 | 0,4 | 230 | 10 m compr. | 1,48 | F2 W2 250.0 330.0 |
| VMFR3050000000 | 305 | 0,65 | 2245 | 0,3 | 250 | 10 m compr. | 1,61 | - |
| VMFR3150000000* | 315 | 0,65 | 2315 | 0,3 | 275 | 10 m compr. | 1,66 | - |
| VMFR3250000000* | 325 | 0,65 | 2390 | 0,3 | 275 | 10 m compr. | 1,72 | - |
| VMFR3560000000* | 356 | 0,65 | 2610 | 0,3 | 300 | 10 m compr. | 0,33 | F2 W2 350.0 410.0 |
| VMFR4060000000* | 406 | 0,75 | 3205 | 0,3 | 350 | 10 m compr. | 0,44 | - |
| VMFR4500000000* | 450 | 0,75 | 4160 | 0,3 | 400 | 10 m compr. | 0,54 | - |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.



ES Tubo transparente de TPU a base de éster, reforzado con espiral de acero recubierta de TPU de color cobre para asegurar la máxima adhesión a la pared. Espesor de pared de 0.40 mm a 0.75 mm. Ligero, muy flexible y muy maneable. Puede producirse en la versión resistente a los microbios o con pared en material antiestático permanente (R<10⁹ Ohm/m) bajo pedido. Conductivo (R<10² Ohm/m) conectando la espiral a tierra.

• Industria de la madera para aspiración de serrín, polvos abrasivos, y donde sea necesaria una alta flexibilidad incluso a bajas temperaturas.

EN Transparent, ester-based TPU hose reinforced with a copper-coloured TPU-coated steel spiral. Wall thickness from 0,4 mm to 0,75 mm. Lightweight and flexible, it is suitable for many applications due to its good abrasion resistance. On request, it can be produced in a bacterial-resistant version or with a permanent antistatic wall (R<10⁹ Ohm/metre). Resistant to mineral oils, weathering, UV rays and ozone. Can be made conductive (R<10² Ohm/m) by grounding the spiral.

• Suction of chips, sawdust, abrasive dust, in the wood industry; industrial suction and dedusting systems.

CÓD. VR FR

Ø mm 25-500

Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral

TPU a base de éster
Ester based TPU hose



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|--|-----------------|---------|--------------|--------|--------------------|--------------|------------|----------------|-----------------------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ | |
| | | VRFR0250000000* | 25 | 0,4 | 140 | 2 | 30 | 20 | 0,05 | - |
| | | VRFR0300000000* | 30 | 0,4 | 160 | 2 | 30 | 20 | 0,05 | - |
| | | VRFR0320000000* | 32 | 0,4 | 170 | 2 | 30 | 20 | 0,06 | - |
| | | VRFR0350000000* | 35 | 0,4 | 190 | 2 | 30 | 20 | 0,06 | - |
| | | VRFR0380000000 | 38 | 0,4 | 175 | 2 | 30 | 20 | 0,09 | - |
| | | VRFR0400000000 | 40 | 0,4 | 185 | 2 | 32 | 20 | 0,09 | - |
| | | VRFR0450000000* | 45 | 0,4 | 205 | 2 | 36 | 20 | 0,10 | - |
| | | VRFR0480000000* | 48 | 0,4 | 215 | 2 | 36 | 20 | 0,10 | - |
| | | VRFR0500000000* | 50 | 0,4 | 225 | 2 | 40 | 20 | 0,11 | - |
| | | VRFR0510000000 | 51 | 0,4 | 225 | 2 | 40 | 20 | 0,11 | - |
| | | VRFR0600000000 | 60 | 0,4 | 260 | 1,7 | 50 | 20 | 0,13 | - |
| | | VRFR0630000000 | 63 | 0,4 | 275 | 1,7 | 55 | 20 | 0,19 | - |
| | | VRFR0650000000* | 65 | 0,4 | 280 | 1,7 | 56 | 20 | 0,19 | - |
| | | VRFR0700000000 | 70 | 0,43 | 375 | 1,7 | 60 | 20 | 0,20 | - |
| | | VRFR0750000000* | 75 | 0,43 | 400 | 1,7 | 65 | 20 | 0,22 | - |
| | | VRFR0760000000 | 76 | 0,43 | 405 | 1,7 | 65 | 20 | 0,22 | - |
| | | VRFR0800000000 | 80 | 0,43 | 420 | 1,6 | 65 | 20 | 0,23 | F2 W2 076.0 090.0 |
| | | VRFR0900000000 | 90 | 0,43 | 470 | 1,6 | 75 | 20 | 0,29 | - |
| | | VRFR1000000000* | 100 | 0,53 | 520 | 1,3 | 85 | 15 | 0,32 | - |
| | | VRFR1020000000 | 102 | 0,53 | 530 | 1,3 | 85 | 15 | 0,32 | - |
| | | VRFR1100000000 | 110 | 0,53 | 570 | 1,2 | 90 | 15 | 0,35 | - |
| | | VRFR1150000000* | 115 | 0,53 | 595 | 1 | 100 | 15 | 0,36 | F2 W2 100.0 127.0 |
| | | VRFR1200000000 | 120 | 0,53 | 620 | 1 | 100 | 15 | 0,37 | - |
| | | VRFR1220000000* | 122 | 0,53 | 630 | 1 | 100 | 15 | 0,38 | - |
| | | VRFR1270000000 | 127 | 0,63 | 755 | 1 | 105 | 15 | 0,39 | - |
| | | VRFR1300000000 | 130 | 0,63 | 770 | 0,8 | 105 | 15 | 0,40 | - |
| | | VRFR1400000000 | 140 | 0,63 | 830 | 0,8 | 115 | 15 | 0,65 | - |
| | | VRFR1500000000* | 150 | 0,63 | 885 | 0,8 | 125 | 15 | 0,69 | F2 W2 130.0 190.0 |
| | | VRFR1520000000 | 152 | 0,63 | 895 | 0,8 | 125 | 15 | 0,70 | - |
| | | VRFR1600000000 | 160 | 0,63 | 940 | 0,7 | 130 | 15 | 0,73 | - |
| | | VRFR1800000000 | 180 | 0,63 | 1250 | 0,5 | 150 | 15 | 0,97 | - |
| | | VRFR2000000000* | 200 | 0,63 | 1385 | 0,4 | 165 | 15 | 1,08 | - |
| | | VRFR2030000000 | 203 | 0,63 | 1405 | 0,4 | 165 | 15 | 1,09 | F2 W2 200.0 230.0 |
| | | VRFR2200000000* | 220 | 0,63 | 1515 | 0,4 | 185 | 10 | 1,18 | - |
| | | VRFR2280000000* | 228 | 0,63 | 1570 | 0,4 | 185 | 10 | 1,22 | - |
| | | VRFR2500000000* | 250 | 0,65 | 1870 | 0,4 | 210 | 10 | 1,33 | - |
| | | VRFR2540000000 | 254 | 0,65 | 1900 | 0,4 | 210 | 10 | 1,35 | - |
| | | VRFR2650000000* | 265 | 0,65 | 1980 | 0,4 | 220 | 10 | 1,41 | F2 W2 250.0 330.0 |
| | | VRFR2790000000* | 279 | 0,65 | 2080 | 0,4 | 230 | 10 | 1,48 | - |
| | | VRFR3050000000 | 305 | 0,65 | 2270 | 0,3 | 250 | 10 | 1,61 | - |
| | | VRFR3150000000* | 315 | 0,65 | 2345 | 0,3 | 275 | 10 | 1,66 | - |
| | | VRFR3560000000* | 356 | 0,65 | 2645 | 0,3 | 300 | 10 | 2,93 | - |
| | | VRFR4000000000* | 400 | 0,75 | 3105 | 0,3 | 350 | 10 | 3,30 | F2 W2 350.0 410.0 |
| | | VRFR4060000000* | 406 | 0,75 | 3150 | 0,3 | 350 | 10 | 3,34 | - |
| | | VRFR4500000000* | 450 | 0,754 | 4095 | 0,2 | 400 | 10 | 3,71 | - |
| | | VRFR5000000000* | 500 | 0,75 | 4530 | 0,1 | 450 | 6 | 1,59 | - |

JP
en stock
available on stock

0,4-0,75
+90°C
-40°C

F2 W2 p.122
Abrazaderas doble puente W2 / Double bridge W2

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES

VULCANO M FR(cód. VM FR) p.17

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

VULCANO® 09 EST



Tubo translucido de TPU a base de éster con espiral de refuerzo de acero recubierta de TPU de alta adhesión de color cobre. Espesor de pared constante de 0,9 mm en toda la gama de diámetros. Superficie interna lisa. Flexible y con óptima resistencia a la abrasión, a los aceites minerales, al ozono, a los rayos UV, al envejecimiento y a los agentes atmosféricos. Puede producirse según pedido la versión resistente a los microbios o con pared en material antiestático permanente ($R < 10^9$ Ohm/m). Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

• Industria de la cerámica y de la madera, plantas de aspiración de serrín, humos, y polvos abrasivos.



Translucent, ester-based TPU hose, reinforced with TPU-coated copper-coloured steel spiral. Constant wall thickness 0,9 mm for all diameters. Smooth inner surface. Robust yet light and flexible, it is also suitable for heavy-duty applications requiring excellent abrasion resistance. Resistant to mineral oils, ageing, weathering, UV rays and ozone. It can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral. On request, it can be made resistant to bacterial action or with a permanent antistatic wall ($R < 10^9$ Ohm/m).

• Suction plants, ceramic and wood industry, suction of chips, sawdust, fumes and dust with medium abrasive power.

Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral

CÓD. VB
Ø mm 20-500

TPU a base de éster
Ester based TPU hose



FICHA TÉCNICA · TECHNICAL DATA



en stock
available on stock



+90°C
picos
peaks
+125°C
-40°C



F2 W2 p.122

Abrazaderas doble puente W2 / Double bridge W2

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



VULCANO 09 ET (cód. VK) p.87



VULCANO 09 AF (cód. U901) p.55



VULCANO 09 EL (cód. EB) p.23

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

| CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|-----------------|---------|--------------|--------|--------------------|--------------|----------------------|----------------|-----------------------------|
| CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ | |
| VB010200000000* | 20 | 0,9 | 170 | 5 | 25 | 20 | 0,04 | - |
| VB010250000000* | 25 | 0,9 | 215 | 5 | 30 | 20 | 0,04 | - |
| VB010300000000* | 30 | 0,9 | 260 | 5 | 35 | 20 | 0,05 | - |
| VB010320000000* | 32 | 0,9 | 280 | 5 | 35 | 20 | 0,05 | - |
| VB010350000000* | 35 | 0,9 | 300 | 5 | 40 | 20 | 0,06 | - |
| VB010380000000 | 38 | 0,9 | 290 | 5 | 40 | 20 | 0,06 | - |
| VB010400000000 | 40 | 0,9 | 300 | 5 | 50 | 20 | 0,07 | - |
| VB010450000000* | 45 | 0,9 | 390 | 5 | 50 | 20 | 0,09 | - |
| VB010500000000* | 50 | 0,9 | 430 | 4 | 60 | 20 | 0,10 | - |
| VB010510000000 | 51 | 0,9 | 435 | 4 | 60 | 20 | 0,10 | - |
| VB010550000000* | 55 | 0,9 | 470 | 3,5 | 65 | 20 | 0,12 | - |
| VB010600000000 | 60 | 0,9 | 510 | 3 | 70 | 20 | 0,13 | - |
| VB010630000000 | 63 | 0,9 | 530 | 3 | 70 | 20 | 0,13 | - |
| VB010650000000* | 65 | 0,9 | 545 | 3 | 70 | 20 | 0,18 | - |
| VB010700000000 | 70 | 0,9 | 675 | 3 | 80 | 20 | 0,20 | - |
| VB010750000000* | 75 | 0,9 | 720 | 3 | 90 | 20 | 0,22 | - |
| VB010760000000 | 76 | 0,9 | 730 | 3 | 90 | 20 | 0,24 | - |
| VB010800000000 | 80 | 0,9 | 765 | 3 | 90 | 20 | 0,26 | F2 W2 076.0 090.0 |
| VB010900000000 | 90 | 0,9 | 855 | 2,5 | 100 | 20 | 0,29 | - |
| VB011000000000* | 100 | 0,9 | 945 | 2 | 120 | 15 | 0,31 | - |
| VB011020000000 | 102 | 0,9 | 965 | 2 | 120 | 15 | 0,32 | - |
| VB011100000000* | 110 | 0,9 | 1035 | 2 | 130 | 15 | 0,34 | F2 W2 100.0 127.0 |
| VB011150000000* | 115 | 0,9 | 1080 | 1,5 | 135 | 15 | 0,36 | - |
| VB011200000000 | 120 | 0,9 | 1125 | 1,5 | 140 | 15 | 0,37 | - |
| VB011270000000 | 127 | 0,9 | 1370 | 1,5 | 150 | 15 | 0,39 | - |
| VB011300000000* | 130 | 0,9 | 1405 | 1,5 | 150 | 15 | 0,40 | - |
| VB011400000000 | 140 | 0,9 | 1505 | 1 | 160 | 15 | 0,64 | - |
| VB011500000000* | 150 | 0,9 | 1610 | 1 | 170 | 15 | 0,69 | - |
| VB011520000000 | 152 | 0,9 | 1630 | 1 | 170 | 15 | 0,70 | F2 W2 130.0 190.0 |
| VB011600000000 | 160 | 0,9 | 1715 | 1 | 180 | 15 | 0,73 | - |
| VB011700000000* | 170 | 0,9 | 1625 | 0,8 | 200 | 15 | 0,92 | - |
| VB011800000000 | 180 | 0,9 | 1720 | 0,8 | 210 | 15 | 0,97 | - |
| VB012000000000 | 200 | 0,9 | 1905 | 0,8 | 230 | 15 | 1,08 | - |
| VB012030000000 | 203 | 0,9 | 1930 | 0,8 | 230 | 15 | 1,09 | - |
| VB012200000000* | 220 | 0,9 | 2090 | 0,6 | 260 | 10 | 1,18 | F2 W2 200.0 230.0 |
| VB012250000000* | 225 | 0,9 | 2135 | 0,6 | 260 | 10 | 1,20 | - |
| VB012280000000* | 228 | 0,9 | 2160 | 0,6 | 260 | 10 | 1,22 | - |
| VB012500000000* | 250 | 0,9 | 2365 | 0,6 | 290 | 10 | 1,33 | - |
| VB012540000000 | 254 | 0,9 | 2400 | 0,6 | 290 | 10 | 1,35 | - |
| VB012650000000* | 265 | 0,9 | 2725 | 0,5 | 300 | 10 | 1,41 | - |
| VB012790000000* | 279 | 0,9 | 2870 | 0,5 | 320 | 10 | 1,48 | F2 W2 250.0 330.0 |
| VB013000000000* | 300 | 0,9 | 3080 | 0,5 | 350 | 10 | 1,59 | - |
| VB013050000000 | 305 | 0,9 | 3130 | 0,5 | 350 | 10 | 1,61 | - |
| VB013150000000* | 315 | 0,9 | 3230 | 0,4 | 350 | 10 | 1,66 | - |
| VB013500000000* | 350 | 0,9 | 4075 | 0,4 | 410 | tramo 10 m/ straight | 1,30 | - |
| VB013560000000* | 356 | 0,9 | 4145 | 0,4 | 410 | tramo 10 m/ straight | 1,34 | - |
| VB014000000000* | 400 | 0,9 | 4645 | 0,3 | - | tramo 10 m/ straight | 1,68 | F2 W2 350.0 410.0 |
| VB014060000000* | 406 | 0,9 | 4715 | 0,3 | - | tramo 10 m/ straight | 1,73 | - |
| VB014500000000* | 450 | 0,9 | 6535 | 0,3 | - | tramo 6 m/ straight | 1,28 | - |
| VB015000000000* | 500 | 0,9 | 7250 | 0,3 | - | tramo 6 m/ straight | 1,57 | - |

VULCANO® 15 EST



(ES) Tubo translucido de TPU a base de éster, espiral en acero recubierta de TPU de color cobre. Superficie interna lisa para favorecer el paso de gránulos y otros sólidos y para optimizar el flujo. Espesor de pared constante de 1,5 mm para todos los diámetros. Buena resistencia a la abrasión, a los aceites minerales, al ozono, a los rayos UV, al envejecimiento y a los agentes atmosféricos. disponible según pedido en la versión antiestática permanente (R<10⁹ Ohm/metro). Conductivo (R<10² Ohm/m) conectando la espiral a tierra.

• Paso a alta velocidad de gránulos, pellets, polvos, y serrín. Para aspiraciones industriales, compresores, sistemas de distribución de gránulos en la industria plástica y maquinas de impresión.

(EN) Translucent, ester-based TPU hose, reinforced with TPU-coated copper-coloured steel spiral. Smooth inner surface to facilitate the passage of dust and granules. Constant wall thickness of 1,5 mm for all diameters. Resistant to mineral oils, ageing, weathering, UV rays and ozone. It can be made conductive (R<10² Ohm/m) by grounding the spiral.

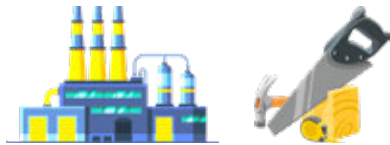
• Passage of highly abrasive granulates, pellets, dusts and chips. For industrial vacuums, compressors, granulate conveying systems, in the plastics industry and on printing presses.

CÓD. VC
Ø mm 20-500



Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral

TPU a base de éster
Ester based TPU hose



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|---------------------------------------------------------------|----------------|---------|--------------|--------|--------------------|--------------|----------------------|----------------|-----------------------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ | |
| constante 1,5 constant | +90°C picos peaks +125°C -40°C | VC01020000000* | 20 | 1,5 | 245 | 9,5 | 25 | 20 | 0,031 | - |
| | | VC01025000000* | 25 | 1,5 | 305 | 9,5 | 30 | 20 | 0,048 | - |
| | F2 W2 p.122 Abrazaderas doble puente W2 / Double bridge W2 | VC01030000000* | 30 | 1,5 | 440 | 9,5 | 35 | 20 | 0,056 | - |
| | | VC01032000000* | 32 | 1,5 | 465 | 9,5 | 35 | 20 | 0,059 | - |
| | VULCANO 15 ET (cód. VI) p.89 | VC01035000000* | 35 | 1,5 | 500 | 9,5 | 40 | 20 | 0,063 | - |
| | | VC01038000000 | 38 | 1,5 | 535 | 9,5 | 40 | 20 | 0,091 | - |
| | VULCANO 15 EL (cód. EC) p.24 | VC01040000000 | 40 | 1,5 | 560 | 9,5 | 50 | 20 | 0,095 | - |
| | | VC01045000000* | 45 | 1,5 | 620 | 9 | 50 | 20 | 0,104 | - |
| | F2 W2 100.0 127.0 | VC01050000000 | 50 | 1,5 | 685 | 9 | 60 | 20 | 0,114 | - |
| | | VC01051000000 | 51 | 1,5 | 695 | 9 | 60 | 20 | 0,116 | - |
| | F2 W2 130.0 190.0 | VC01055000000* | 55 | 1,5 | 745 | 9 | 65 | 20 | 0,124 | - |
| | | VC01060000000 | 60 | 1,5 | 810 | 8,5 | 70 | 20 | 0,133 | - |
| | F2 W2 200.0 230.0 | VC01063000000 | 63 | 1,5 | 845 | 8 | 70 | 20 | 0,185 | - |
| | | VC01065000000* | 65 | 1,5 | 870 | 7,5 | 70 | 20 | 0,190 | - |
| | F2 W2 250.0 330.0 | VC01070000000 | 70 | 1,5 | 1005 | 7,5 | 80 | 20 | 0,205 | - |
| | | VC01075000000* | 75 | 1,5 | 1075 | 7 | 80 | 20 | 0,218 | - |
| | F2 W2 350.0 410.0 | VC01076000000 | 76 | 1,5 | 1090 | 7 | 90 | 20 | 0,248 | - |
| | | VC01080000000 | 80 | 1,5 | 1140 | 6 | 90 | 20 | 0,259 | F2 W2 076.0 090.0 |
| | F2 W2 200.0 230.0 | VC01090000000 | 90 | 1,5 | 1275 | 5 | 100 | 20 | 0,288 | - |
| | | VC01100000000* | 100 | 1,5 | 1410 | 4 | 120 | 15 | 0,317 | - |
| | F2 W2 250.0 330.0 | VC01102000000 | 102 | 1,5 | 1435 | 3,5 | 120 | 15 | 0,323 | - |
| | | VC01110000000 | 110 | 1,5 | 1545 | 3,2 | 130 | 15 | 0,346 | - |
| | F2 W2 200.0 230.0 | VC01115000000* | 115 | 1,5 | 1610 | 3 | 135 | 15 | 0,360 | - |
| | | VC01120000000 | 120 | 1,5 | 1675 | 3 | 140 | 15 | 0,374 | - |
| | F2 W2 250.0 330.0 | VC01122000000* | 122 | 1,5 | 1705 | 3 | 140 | 15 | 0,380 | - |
| | | VC01127000000 | 127 | 1,5 | 2075 | 2,9 | 150 | 15 | 0,397 | - |
| | F2 W2 200.0 230.0 | VC01130000000* | 130 | 1,5 | 2120 | 2,6 | 150 | 15 | 0,608 | - |
| | | VC01140000000* | 140 | 1,5 | 2275 | 2,4 | 160 | 15 | 0,651 | - |
| | F2 W2 250.0 330.0 | VC01150000000 | 150 | 1,5 | 2435 | 2 | 170 | 15 | 0,695 | - |
| | | VC01152000000 | 152 | 1,5 | 2465 | 2 | 170 | 15 | 0,703 | - |
| | F2 W2 350.0 410.0 | VC01160000000 | 160 | 1,5 | 2590 | 1,8 | 180 | 15 | 0,738 | - |
| | | VC01175000000* | 175 | 1,5 | 2705 | 1,5 | 200 | 15 | 0,954 | - |
| | F2 W2 200.0 230.0 | VC01180000000 | 180 | 1,5 | 2780 | 1,5 | 210 | 15 | 0,980 | - |
| | | VC01200000000 | 200 | 1,5 | 3080 | 1,2 | 230 | 15 | 1,082 | - |
| | F2 W2 250.0 330.0 | VC01203000000 | 203 | 1,5 | 3125 | 1,2 | 230 | 15 | 1,098 | - |
| | | VC01206000000* | 206 | 1,5 | 3170 | 1,2 | 235 | 15 | 1,113 | - |
| | F2 W2 350.0 410.0 | VC01220000000* | 220 | 1,5 | 3380 | 1 | 260 | 10 | 1,185 | - |
| | | VC01228000000* | 228 | 1,5 | 3500 | 1 | 260 | 10 | 1,226 | - |
| | F2 W2 200.0 230.0 | VC01250000000* | 250 | 1,5 | 3830 | 0,8 | 290 | 10 | 1,338 | - |
| | | VC01254000000* | 254 | 1,5 | 3890 | 0,8 | 290 | 10 | 1,359 | - |
| | F2 W2 250.0 330.0 | VC01265000000* | 265 | 1,5 | 4055 | 0,7 | 300 | 10 | 1,415 | - |
| | | VC01279000000* | 279 | 1,5 | 4265 | 0,7 | 320 | 10 | 1,487 | - |
| | F2 W2 350.0 410.0 | VC01305000000* | 305 | 1,5 | 5680 | 0,7 | 350 | tramo 10 m/ straight | 1,007 | - |
| | | VC01320000000* | 320 | 1,5 | 5955 | 0,7 | - | tramo 10 m/ straight | 1,105 | - |
| | F2 W2 200.0 230.0 | VC01350000000* | 350 | 1,5 | 6500 | 0,7 | - | tramo 10 m/ straight | 1,313 | - |
| | | VC01400000000* | 400 | 1,5 | 7415 | 0,7 | - | tramo 6 m/ straight | 1,020 | - |
| | F2 W2 250.0 330.0 | VC01406000000* | 406 | 1,5 | 7525 | 0,7 | - | tramo 6 m/ straight | 1,050 | - |
| | | VC01450000000* | 450 | 1,5 | 8325 | 0,3 | - | tramo 6 m/ straight | 1,283 | - |
| | F2 W2 350.0 410.0 | VC01500000000* | 500 | 1,5 | 9240 | 0,2 | 600 | tramo 5 m/ straight | 1,313 | - |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% umidity.

VULCANO® STONE



ES Tubo translucido de TPU a base de éster antimicrobico, con espiral de refuerzo de acero recubierta de TPU de alta adhesión de color cobre, para garantizar la máxima seguridad de uso incluso en aplicaciones extremas. Espesor de pared constante de 2,0 mm para todos los diámetros. Superficie interna lisa, ligero, maneable y flexible. Elevada resistencia a la abrasión, a los aceites minerales, al ozono, a los rayos UV, al envejecimiento y a los agentes atmosféricos. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

• Indicado para aspiración de substancias de altísimo poder abrasivo; camiones aspiradores en el campo de la construcción, en particular en las actividades relativas al aislamiento de tejados. Puede usarse en las cementeras, en las cavas y en las plantas de acero.

EN Translucent, antimicrobial ester-based TPU hose, reinforced with a TPU coated copper plated steel spiral, for maximum safety in use even in extreme applications. Constant wall thickness 2.0 mm over the entire diameter range. Smooth inner surface. Maintains high flexibility and ease of use despite its thickness, thanks to its low weight. Very high abrasion resistance, good resistance to mineral oils, ozone, ageing, UV rays and weathering. The hose can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

• Dedicated to heavy-duty applications involving the suction of highly abrasive substances. Particularly suitable for suction excavator trucks and in the roof insulation sector. Can be used in cement works, quarries and steel mills.

CÓD. TH 01
Ø mm 38-254



TPU a base de éster antimicrobico
Antimicrobial ester based TPU hose

Espirales de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--|-----------------|---------|--------------|--------|--------------------|--------------|----------------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ |
| | | TH010380000000* | 38 | 2 | 800 | 9,7 | 150 | 15 | 0,06 |
| | | TH010400000000* | 40 | 2 | 840 | 9,7 | 160 | 15 | 0,07 |
| | | TH010450000000* | 45 | 2 | 930 | 9,7 | 180 | 15 | 0,11 |
| | | TH010510000000* | 51 | 2 | 1140 | 9,7 | 204 | 15 | 0,12 |
| | | TH010600000000* | 60 | 2 | 1320 | 9,7 | 240 | 15 | 0,18 |
| | | TH010630000000* | 63 | 2 | 1380 | 9,7 | 250 | 15 | 0,19 |
| | | TH010650000000* | 65 | 2 | 1420 | 9,7 | 250 | 15 | 0,20 |
| | | TH010700000000* | 70 | 2 | 1520 | 9,5 | 280 | 15 | 0,21 |
| | | TH010760000000* | 76 | 2 | 1640 | 9,5 | 305 | 15 | 0,25 |
| | | TH010800000000* | 80 | 2 | 1720 | 9,5 | 320 | 15 | 0,26 |
| | | TH010900000000* | 90 | 2 | 1925 | 9,5 | 360 | 15 | 0,29 |
| | | TH011000000000* | 100 | 2 | 2275 | 9,5 | 400 | 10 | 0,32 |
| | | TH011020000000* | 102 | 2 | 2320 | 9,5 | 410 | 10 | 0,33 |
| | | TH011100000000* | 110 | 2 | 2490 | 9,4 | 440 | 10 | 0,35 |
| | | TH011150000000* | 115 | 2 | 2600 | 9,4 | 460 | 10 | 0,37 |
| | | TH011200000000* | 120 | 2 | 2705 | 9,2 | 480 | 10 | 0,68 |
| | | TH011270000000* | 127 | 2 | 2965 | 9 | 510 | tramo 10 m/ straight | 0,72 |
| | | TH011300000000* | 130 | 2 | 3030 | 9 | 520 | tramo 10 m/ straight | 0,73 |
| | | TH011400000000* | 140 | 2 | 3255 | 8,7 | 560 | tramo 10 m/ straight | 0,23 |
| | | TH011500000000* | 150 | 2 | 3475 | 8,5 | 600 | tramo 10 m/ straight | 0,27 |
| | | TH011520000000* | 152 | 2 | 3520 | 8,2 | 610 | tramo 10 m/ straight | 0,27 |
| | | TH011600000000* | 160 | 2 | 4245 | 8 | 640 | tramo 10 m/ straight | 0,30 |
| | | TH011800000000* | 180 | 2 | 4750 | 7 | 810 | tramo 10 m/ straight | 0,37 |
| | | TH012000000000* | 200 | 2 | 5260 | 6 | 1000 | tramo 10 m/ straight | 1,64 |
| | | TH012030000000* | 203 | 2 | 5335 | 6 | 1015 | tramo 10 m/ straight | 0,47 |
| | | TH012280000000* | 228 | 2 | 5975 | 5 | - | tramo 6 m/ straight | 0,35 |
| | | TH012400000000* | 240 | 2 | 6280 | 4 | - | tramo 6 m/ straight | 0,39 |
| | | TH012450000000* | 245 | 2 | 6405 | 4 | - | tramo 6 m/ straight | 0,40 |
| | | TH012500000000* | 250 | 2 | 6535 | 4 | - | tramo 6 m/ straight | 0,42 |
| | | TH012540000000* | 254 | 2 | 6635 | 4 | - | tramo 6 m/ straight | 0,43 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

VULCANO® STONE PLUS



ES Tubo translucido de TPU a base de éster antimicrobico y con espiral de refuerzo de acero recubierta de TPU de alta adhesión de color cobre, para garantizar la máxima seguridad de uso, incluso en aplicaciones extremas. Superficie interna lisa, espesor de pared constante de 2,5 mm. Ligero, maneable y flexible, tiene una alta resistencia a la abrasión, a los aceites minerales, al ozono, a los rayos UV, al envejecimiento y a los agentes atmosféricos. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

• Industria siderúrgica: aspiración de sustancias y materiales con alto poder abrasivo, como las arenas de cuarzo, materiales de desecho; particularmente indicado para camiones excavadores de aspiración. Combinándolo a URANO HD SUPER, forman la mejor respuesta a las exigencias de transporte y aspiración de materiales altamente abrasivos en el sector de la reestructuración / aislamiento de tejados. También se utiliza en cementeras, canteras y acerías.

EN Translucent, antimicrobial ester-based TPU hose, reinforced with a TPU coated copper plated steel spiral, for maximum safety in use even in extreme applications. Constant wall thickness 2.5 mm over the entire diameter range. The high wall thickness enhances a greater abrasion resistance and a longer life of the hose, which is flexible and easy to handle as well as light in weight. Good resistance to mineral oils, ozone, ageing, UV rays and weathering. The hose can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

• Suction of highly abrasive substances and materials, such as quartz sands, waste materials in the steel industry and debris; particularly suitable on trucks equipped with suction extractors. In combination with IPL URANO HD SUPER hose, it is the best solution for the delivery and suction of highly abrasive materials in the construction, renovation/roof insulation sector. The hose is also used in cement works, quarries and steel mills.

COD. TH 07

Ø mm 40-254



TPU a base de éster antimicrobico
Ester based TPU hose

Espirales de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|----------------------------------------------------------------------------------------------------------------------|-----------------|---------|--------------|--------|--------------------|----------------------|-----------------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ |
| <p>ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES</p> <p>VULCANO STONE (cod. TH 01) p.21</p> | TH070400000000* | 40 | 2,5 | 945 | 9,7 | 180 | 15 | 0,10 |
| | TH070450000000* | 45 | 2,5 | 1210 | 9,7 | 200 | 15 | 0,11 |
| | TH070510000000* | 51 | 2,5 | 1350 | 9,7 | 200 | 15 | 0,12 |
| | TH070600000000* | 60 | 2,5 | 1560 | 9,7 | 250 | 15 | 0,19 |
| | TH070800000000* | 80 | 2,5 | 2025 | 9,7 | 300 | tramo 10 m / straight | 0,38 |
| | TH070900000000* | 90 | 2,5 | 2255 | 9,7 | 350 | tramo 10 m / straight | 0,42 |
| | TH071000000000* | 100 | 2,5 | 2660 | 9,5 | 500 | tramo 10 m / straight | 0,46 |
| | TH071020000000* | 102 | 2,5 | 2710 | 9,5 | 500 | tramo 10 m / straight | 0,47 |
| | TH071270000000* | 127 | 2,5 | 3710 | 9 | 600 | tramo 10 m / straight | 0,20 |
| | TH071520000000* | 152 | 2,5 | 4235 | 8 | 800 | tramo 6 m / straight | 0,17 |
| | TH071750000000* | 175 | 2,5 | 5370 | 6 | 900 | tramo 6 m / straight | 0,22 |
| | TH072000000000* | 200 | 2,5 | 6110 | 4 | 1000 | tramo 6 m / straight | 0,28 |
| | TH072030000000* | 203 | 2,5 | 6195 | 4 | 1000 | tramo 6 m / straight | 0,28 |
| | TH072250000000* | 225 | 2,5 | 6855 | 4 | 1200 | tramo 6 m / straight | 0,35 |
| | TH072500000000* | 250 | 2,5 | 7595 | 4 | 1400 | tramo 6 m / straight | 0,42 |
| TH072540000000* | 254 | 2,5 | 7710 | 4 | 1400 | tramo 6 m / straight | 0,44 | |

Los datos técnicos indicados se midieron a 23°C y 50% de humedad. *The technical data here reported have been measured at 23°C with 50% humidity.*
*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas. **Available on request, contact our sales office for more info and quantities.*

(ES) Tubo de TPU a base de éster, de color negro, reforzado con espiral en acero recubierta de TPU de color cobre, para asegurar la máxima adhesión con las paredes. Material con propiedades electroconductoras permanentes ($R < 10^4 \text{ Ohm/m}$). Superficie interna lisa para optimizar el flujo; espesor de pared de 0,9 mm constante para todos los diámetros. El tubo es apto para transferir cargas electrostáticas cuando se instala en sistemas debidamente conectados a tierra y se vuelve conductor ($R < 10^2 \text{ Ohm/m}$) conectando la espiral a tierra. El tubo satisface los requisitos de las principales normativas en campo electroestático ATEX, ISO 8031.

• Aplicaciones en ambientes con normativa ATEX. Para plantas de aspiración, para la industria de la cerámica y de la madera, aspiración de serrín, humos y polvos abrasivos.

(EN) Black, ester-based TPU hose, reinforced with a TPU-coated copper-coloured steel spiral, to ensure maximum adhesion with the wall. Material with permanent electrical conductive properties ($R < 10^4 \text{ Ohm/metre}$), according to ISO 8031. Smooth inner surface to optimise the passage of substances. Constant wall thickness 0,9 mm for all diameters. Robust yet light and flexible, it is also suitable for heavy-duty applications requiring excellent abrasion resistance. The hose is capable of transferring electrostatic charges when installed on properly earthed systems and becomes conductive ($R < 10^2 \text{ Ohm/m}$) by earthing the spiral. It meets the requirements of the main regulations in the electrostatic field: ATEX, ISO 8031.

• Applications in ATEX regulated environments. For suction systems, ceramic and wood industry, suction of chips, sawdust, fumes and abrasive dust.

COD. EB

Ø mm 38-203

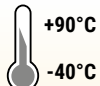


TPU a base de éster
Ester based TPU hose

Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|-----------------|---------|--------------|--------|--------------------|--------------|------------|----------------|-----------------------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ | |
| | EB010380000000* | 38 | 0,9 | 295 | 0,3 | 40 | 20 | 0,06 | - |
| | EB010400000000* | 40 | 0,9 | 310 | 0,3 | 50 | 20 | 0,07 | - |
| | EB010450000000* | 45 | 0,9 | 385 | 0,3 | 50 | 20 | 0,09 | - |
| | EB010500000000* | 50 | 0,9 | 425 | 0,3 | 60 | 20 | 0,10 | - |
| | EB010510000000* | 51 | 0,9 | 435 | 0,3 | 60 | 20 | 0,10 | - |
| | EB010600000000* | 60 | 0,9 | 505 | 0,3 | 70 | 20 | 0,13 | - |
| | EB010630000000* | 63 | 0,9 | 530 | 0,3 | 70 | 20 | 0,18 | - |
| | EB010650000000* | 65 | 0,9 | 545 | 0,3 | 70 | 20 | 0,18 | - |
| | EB010700000000* | 70 | 0,9 | 655 | 0,3 | 80 | 20 | 0,20 | - |
| | EB010750000000* | 75 | 0,9 | 695 | 0,3 | 90 | 20 | 0,22 | - |
| | EB010760000000* | 76 | 0,9 | 705 | 0,3 | 90 | 20 | 0,22 | - |
| | EB010800000000* | 80 | 0,9 | 740 | 0,3 | 90 | 20 | 0,23 | F2 W2 076.0 090.0 |
| | EB010900000000* | 90 | 0,9 | 830 | 0,3 | 100 | 20 | 0,29 | - |
| | EB011000000000* | 100 | 0,9 | 915 | 0,3 | 120 | 15 | 0,31 | - |
| | EB011020000000* | 102 | 0,9 | 930 | 0,3 | 120 | 15 | 0,32 | - |
| | EB011100000000* | 110 | 0,9 | 1000 | 0,3 | 130 | 15 | 0,34 | F2 W2 100.0 127.0 |
| | EB011150000000* | 115 | 0,9 | 1045 | 0,3 | 135 | 15 | 0,36 | - |
| | EB011200000000* | 120 | 0,9 | 1090 | 0,3 | 140 | 15 | 0,37 | - |
| | EB011270000000* | 127 | 0,9 | 1335 | 0,3 | 150 | 15 | 0,39 | - |
| | EB011300000000* | 130 | 0,9 | 1365 | 0,3 | 150 | 15 | 0,40 | - |
| | EB011400000000* | 140 | 0,9 | 1465 | 0,3 | 160 | 15 | 0,64 | - |
| | EB011500000000* | 150 | 0,9 | 1565 | 0,3 | 170 | 15 | 0,69 | F2 W2 130.0 190.0 |
| | EB011520000000* | 152 | 0,9 | 1585 | 0,3 | 170 | 15 | 0,70 | - |
| | EB011600000000* | 160 | 0,9 | 1665 | 0,3 | 180 | 15 | 0,73 | - |
| | EB011800000000* | 180 | 0,9 | 1680 | 0,3 | 210 | 15 | 0,97 | - |
| | EB012000000000* | 200 | 0,9 | 1860 | 0,3 | 230 | 15 | 1,08 | F2 W2 200.0 230.0 |
| | EB012030000000* | 203 | 0,9 | 1885 | 0,3 | 230 | 15 | 1,09 | - |

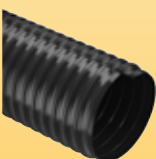


Abrazaderas doble puente W2/ Double bridge W2

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



VULCANO 09 (cod. VB) p.19



VULCANO 15 EL (cod. EC) p.24

Los datos técnicos indicados se midieron a 23°C y 50% de humedad. *The technical data here reported have been measured at 23°C with 50% humidity.*
*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas. **Available on request, contact our sales office for more info and quantities.*

VULCANO® 15 EL



ES Tubo de TPU a base de éster, de color negro, reforzado con espiral de acero recubierta de TPU de color cobre, para asegurar la máxima adhesión con las paredes. Material con propiedades electroconductoras permanentes ($R < 10^4 \text{ Ohm/m}$, según la norma ISO 8031. Superficie interna lisa para optimizar el flujo; espesor de pared de 1,5 mm constante para todos los diámetros. El tubo es apto para transferir cargas electrostáticas cuando se instala en sistemas debidamente conectados a tierra y se vuelve conductor ($R < 10^2 \text{ Ohm/m}$) conectando la espiral a tierra. El tubo satisface los requisitos de las principales normativas en campo electroestático ATEX, ISO 8031.

• Aplicaciones en ambientes con normativa ATEX. Para plantas de aspiración, para la industria de la cerámica y de la madera, aspiración de serrín, humos y polvos abrasivos.

EN Black, ester-based TPU hose, reinforced with a TPU-coated copper-coloured steel spiral, to ensure maximum adhesion with the wall. Material with permanent electrical conductive properties ($R < 10^4 \text{ Ohm/metre}$), according to ISO 8031. Smooth inner surface to optimise the passage of substances. Constant wall thickness 1,5 mm for all diameters. Robust yet light and flexible, it is also suitable for heavy-duty applications requiring excellent abrasion resistance. The hose is capable of transferring electrostatic charges when installed on properly earthed systems and becomes conductive ($R < 10^2 \text{ Ohm/m}$) by earthing the spiral. It meets the requirements of the main regulations in the electrostatic field: ATEX, ISO 8031.

• Applications in ATEX regulated environments. For suction systems, ceramic and wood industry, suction of chips, sawdust, fumes and abrasive dust.

CÓD. EC
Ø mm 38-203



TPU a base de éster
Ester based TPU hose

Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|---------|--------------|--------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ |
| | | EC010380000000* | 38 | 1,5 | 530 | 9,5 | 40 | 20 | 0,07 |
| | | EC010400000000* | 40 | 1,5 | 555 | 9,5 | 50 | 20 | 0,09 |
| <p>F2 W2 p.122 Abrazaderas doble puente W2 / Double bridge W2</p> | | EC010450000000* | 45 | 1,5 | 620 | 9 | 50 | 20 | 0,10 |
| | | EC010500000000* | 50 | 1,5 | 680 | 9 | 60 | 20 | 0,11 |
| <p>ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES</p> <p>VULCANO 15 (cod. VC) p.20</p> <p>VULCANO 09 EL (cod. EB) p.23</p> | | EC010510000000* | 51 | 1,5 | 690 | 9 | 60 | 20 | 0,11 |
| | | EC010600000000* | 60 | 1,5 | 805 | 8,5 | 70 | 20 | 0,13 |
| | | EC010630000000* | 63 | 1,5 | 840 | 8 | 70 | 20 | 0,19 |
| | | EC010650000000* | 65 | 1,5 | 865 | 7,5 | 70 | 20 | 0,19 |
| | | EC010700000000* | 70 | 1,5 | 1035 | 7,5 | 80 | 20 | 0,20 |
| | | EC010750000000* | 75 | 1,5 | 1100 | 7 | 80 | 20 | 0,22 |
| | | EC010760000000* | 76 | 1,5 | 1115 | 7 | 90 | 20 | 0,22 |
| | | EC010800000000* | 80 | 1,5 | 1170 | 6 | 90 | 20 | 0,23 |
| | | EC010900000000* | 90 | 1,5 | 1310 | 5 | 100 | 20 | 0,29 |
| | | EC011000000000* | 100 | 1,5 | 1445 | 4 | 120 | 15 | 0,32 |
| | | EC011020000000* | 102 | 1,5 | 1475 | 3,5 | 120 | 15 | 0,32 |
| | | EC011100000000* | 110 | 1,5 | 1585 | 3,2 | 130 | 15 | 0,35 |
| | | EC011520000000* | 152 | 1,5 | 2520 | 1,8 | 180 | 15 | 0,70 |
| | | EC011600000000* | 160 | 1,5 | 2645 | 1,8 | 180 | 15 | 0,74 |
| | | EC012030000000* | 203 | 1,5 | 3170 | 1,2 | 230 | 15 | 1,10 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

VULCANO® SC 0,75



(ES) Tubo de color negro de TPU a base de éter, con espiral de refuerzo de acero recubierta de TPU de alta adhesión. Espesor de pared constante de 0,75 mm. Resistente a la hidrólisis y a los microbios, a los rayos UV y a los agentes atmosféricos. Especialmente diseñado para aplicaciones de limpieza de calles, su estructura permite una excelente compresibilidad axial durante su uso y permite una mejor resistencia a los esfuerzos en movimiento. Conductivo conectando la espiral a tierra ($R < 10^2$ Ohm/m).

- Indicado para su uso en barredoras de limpieza urbana, para la aspiración de hojas, tierra y residuos húmedos.

(EN) Black ether-based TPU hose reinforced with a high adhesion TPU coated steel spiral. Constant wall thickness of 0,75 mm. Resistant to hydrolysis and microbes. Its special construction is designed for street cleaning applications, which allows excellent axial compressibility during use and enables better resistance to movement stress. It can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

- Suitable for use on small and medium-sized street sweepers, for suction of leaves, soil, mulch and wet residues.

CÓD. UT 01
Ø mm 130



TPU a base de éter
Ether based TPU hose

Espiral de acero recubierta de TPU de color cobre
Copper plated steel spiral



FICHA TÉCNICA · TECHNICAL DATA

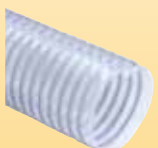
| CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|-----------------|---------|--------------|--------|--------------------|--------------|------------|----------------|
| CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ |
| UT011300000000* | 130 | 0,75 | 1280 | 0,8 | 105 | 15 | 0,4 |



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



VULCANO SC 1,5 (cód. VQ) p.26



VULCANO SC 1,75 (cód. VJ) p.27

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

VULCANO® SC 1,5



ES **Tubo translucido de TPU a base de éter, reforzado con espiral de acero recubierto de TPU de color gris.** Espesor de pared constante de 1,5 mm. Resistente a la hidrólisis y a los microbios, a los rayos UV y a los agentes atmosféricos. Especialmente diseñado para aplicaciones de limpieza de calles, su estructura permite una excelente compresibilidad axial durante su uso y permite una mejor resistencia a los esfuerzos en movimiento. Conductivo conectando la espiral a tierra ($R < 10^2$ Ohm/m).

- Se utiliza en barredoras de calles de todos los tipos y dimensiones que someten a la manguera a importantes esfuerzos durante su uso. Aspiración de hojas, tierra y residuos húmedos.

EN **Translucent ether-based TPU hose reinforced with TPU coated grey colored steel spiral.** Constant wall thickness 1,5 mm. Resistant to hydrolysis and microbes, to UV rays and weathering. Specially designed for street cleaning applications, its construction allows excellent axial compressibility during use and enables better resistance to moving stress. It can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

- Suitable for street sweepers of all types and sizes, that expose the hose to significant stress during use. Suction of leaves, soil, mulch and wet residues.

CÓD. VQ 01
Ø mm 360



TPU a base de éter
 Ether based TPU hose

Espiral de acero recubierta de TPU de color gris
 Grey colored TPU coated steel spiral

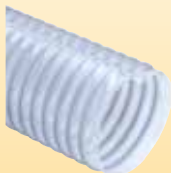


| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--|-----------------|---------|--------------|--------|--------------------|--------------|----------------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ |
| | | VQ013600000000* | 360 | 1,5 | 4810 | 0,4 | - | tramo 10 m/ straight | 1,40 |

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



VULCANO SC 0,75 (cód. UT) p.25



VULCANO SC 1,75 (cód. VJ) p. 27

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

VULCANO® 1,75



(ES) Tubo translucido de TPU a base de éster antimicrobico con espiral de refuerzo de acero recubierta de TPU de color gris. Espesor de pared constante de 1,75 mm. Resistente a la hidrólisis y a los microbios, a los rayos UV y a los agentes atmosféricos. Especialmente diseñado para aplicaciones de limpieza de calles, su estructura permite una excelente compresibilidad axial durante su uso y permite una mejor resistencia durante las aplicaciones dinámicas. Conductivo conectando la espiral a tierra ($R < 10^2$ Ohm/m).

- Se utiliza en barredoras de calles (medio y grande), donde el esfuerzo en movimiento es especialmente elevado. Aspiración de follaje, tierra y residuos húmedos; se utiliza en aeropuertos y en zonas de gran superficie.

(EN) Translucent antimicrobial ester-based TPU hose reinforced with TPU-coated grey colored steel spiral. Constant wall thickness 1,75 mm. Resistant to hydrolysis and microbes, UV rays and weathering. Specially designed for street cleaning applications, its construction allows excellent axial compressibility during use and enables better resistance during dynamic applications. It can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

- Suitable for medium and big sized street sweepers, where the stress in motion is particularly high. Suction of leaf, soil, mulch and wet residues; mainly used at airports and on wide surface areas.

CÓD. VJ 01
Ø mm 206-257-360



TPU a base de éster antimicrobico
Antimicrobial ester based TPU

Espiral de acero recubierta de TPU de color gris
Grey colored TPU coated steel spiral



SCHEMA TECNICA · TECHNICAL DATA



+90°C picos peaks +125°C
-40°C

| CÓDIGO CODE | Ø INT. Ø INT. | MIN ESP. MIN WALL TH. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. |
|-----------------|------------------|--------------------------|----------------|--------------------|-------------------------|-------------------------|----------------|
| | mm/inch | mm | g/m | m H ₂ O | mm | m | m ³ |
| VJ012060000000* | 206 | 1,75 | 3215 | 0,8 | - | 10 | 1,12 |
| VJ012570000000* | 257 | 1,75 | 3985 | 0,5 | - | 10 | 1,38 |
| VJ013600000000* | 360 | 1,75 | 5540 | 0,5 | - | tramo 10 m/ straight | 1,39 |

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



VULCANO SC 0,75 (cód. UT) p.25



VULCANO SC 1,5 (cód. VQ) p.26

*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES Tubo translucido de TPU a base de éster reforzado con espiral de acero recubierto de TPU de color cobre, para garantizar una óptima adhesión con la pared y asegurar la máxima seguridad en uso. Superficie interna **completamente lisa** para optimizar el flujo del material transportado; espesor de pared 0,7 mm constante para todos los diámetros. Realizado con un TPU especial dotado de características combinadas que convierten el material de la pared en antiestático permanente ($R < 10^9$ Ohm/metro), y resistente a los rayos UV. Capacidad de resistencia a la abrasión de 20 mm³ (50% más alta de aquella de un tubo normal de TPU). Resistente a los aceites minerales, el envejecimiento, la intemperie, el ozono y muchos productos químicos. Resistencia superior a la hidrólisis respecto a los tubos normales de TPU éster. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

• Industria de la cerámica y de la madera, plantas de aspiración de serrín, humos, y polvos abrasivos.

EN Translucent, ester-based TPU hose reinforced with a copper-coloured TPU-coated steel spiral, to ensure optimum adhesion to the wall and maximum safety in use. **Completely smooth** inner surface to optimise the flow of transported media; constant 0,7 mm wall thickness for all diameters. Robust yet light and flexible, it is also suitable for heavy-duty applications thanks to an abrasion resistance capacity of 20 mm³ (50% more than a normal TPU hose). Resistant to mineral oils, ageing, weathering, ozone and many chemicals. NEXT 07 is made of special TPU with combined characteristics that make the wall material permanently antistatic ($R < 10^9$ Ohm/m) and UV-resistant. The excellent quality of the compound used also offers superior resistance to hydrolytic attack if compared to normal ester based TPU hoses. The hose can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

• Suction plants, ceramic and wood industry, suction of chips, sawdust, fumes and abrasive dust, even in critical conditions.

CÓD. N7
Ø mm 50,8-203

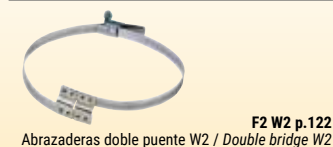


TPU a base de éster
Ester based TPU hose

Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|-----------------|--------|--------------|--------|--------------------|--------------|------------|----------------|-----------------------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| | N7010520000000 | 50,8 | 0,7 | 365 | 2 | 50 | 30 | 0,18 | - |
| | N7010600000000 | 60 | 0,7 | 480 | 1,7 | 70 | 30 | 0,21 | - |
| | N7010630000000 | 63,5 | 0,7 | 515 | 1,7 | 70 | 30 | 0,30 | - |
| | N7010650000000* | 65 | 0,7 | 525 | 1,7 | 75 | 30 | 0,31 | - |
| | N7010700000000* | 70 | 0,7 | 565 | 1,7 | 85 | 30 | 0,33 | - |
| | N7010760000000 | 76,2 | 0,7 | 615 | 1,7 | 90 | 30 | 0,36 | - |
| | N7010800000000 | 80 | 0,7 | 615 | 1,6 | 95 | 30 | 0,37 | - |
| | N7010900000000* | 90 | 0,7 | 690 | 1,6 | 105 | 20 | 0,28 | - |
| | N7011000000000 | 100 | 0,7 | 830 | 1,3 | 135 | 20 | 0,31 | F2 W2 100.0 127.0 |
| | N7011020000000 | 102 | 0,7 | 845 | 1,3 | 135 | 20 | 0,31 | |
| | N7011100000000* | 110 | 0,7 | 875 | 1,2 | 145 | 20 | 0,50 | |
| | N7011200000000 | 120 | 0,7 | 960 | 1 | 160 | 20 | 0,55 | F2 W2 130.0 190.0 |
| | N7011270000000 | 127 | 0,7 | 1015 | 1 | 210 | 20 | 0,58 | |
| | N7011400000000* | 140 | 0,7 | 1045 | 0,8 | 185 | 20 | 0,63 | |
| | N7011520000000 | 152,4 | 0,7 | 1255 | 0,8 | 230 | 20 | 0,82 | F2 W2 200.0 230.0 |
| | N7011600000000* | 160 | 0,7 | 1325 | 0,7 | 250 | 20 | 0,86 | |
| | N7011800000000* | 180 | 0,7 | 1490 | 0,5 | 270 | 20 | 0,96 | |
| | N7012030000000 | 203,2 | 0,7 | 1850 | 0,4 | 300 | 15 | 1,08 | F2 W2 200.0 230.0 |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% humidity.

IPL se reserva el derecho a realizar cambios en la información aquí contenida y/o a interrumpir un producto sin previo aviso. We reserve the right either to alter specifications and discontinue products without prior notice.



(ES) **Tubo translucido de TPU a base de éster reforzado con espiral de acero recubierto de TPU de color cobre**, para garantizar una óptima adhesión con la pared y asegurar la máxima seguridad en uso. Superficie interna completamente lisa para optimizar el flujo del material transportado; espesor de pared 0,9 mm constante para todos los diámetros. Realizado con un TPU especial dotado de características combinadas que convierten el material de la pared en antiestático permanente ($R < 10^9$ Ohm/metro), y resistente a los rayos UV. Capacidad de resistencia a la abrasión de 20 mm³ (50% más alta de aquella de un tubo normal de TPU). Resistente a los aceites minerales, el envejecimiento, la intemperie, el ozono y muchos productos químicos. Resistencia superior a la hidrólisis respecto a los tubos normales de TPU éster. Conductivo conectando la espiral a tierra ($R < 10^2$ Ohm/m).

• Industria de la cerámica y de la madera, plantas de aspiración de serrín, humos, y polvos abrasivos.

(EN) **Translucent, ester-based TPU hose reinforced with a copper-coloured TPU-coated steel spiral**, to ensure optimum adhesion to the wall and maximum safety in use. Completely smooth inner surface to optimise the flow of transported media; constant 0,9 mm wall thickness for all diameters. Robust yet light and flexible, it is also suitable for heavy-duty applications thanks to an abrasion resistance capacity of 20 mm³ (50% more than a normal TPU hose). Resistant to mineral oils, ageing, weathering, ozone and many chemicals. NEXT 09 is made of special TPU with combined characteristics that make the wall material permanently antistatic ($R < 10^9$ Ohm/m) and UV-resistant. The excellent quality of the compound used also offers superior resistance to hydrolytic attack if compared to normal ester based TPU hoses. The hose can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

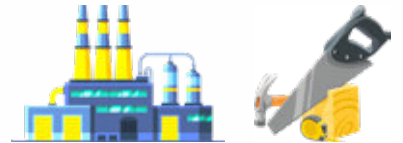
• Suction plants, ceramic and wood industry, suction of chips, saw-dust, fumes and abrasive dust, even in critical conditions.

CÓD. N9
Ø mm 25-305



TPU a base de éster
Ester based TPU hose

Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral



FICHA TÉCNICA · TECHNICAL DATA



F2 W2 p.122
Abrazaderas doble puente W2 / Double bridge W2

**ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES**



Next 07 (cód. N7) p.28



NEXT 09 ET (cód. N9 ET) p.91



NEXT 15 (cód. N5) p.30

| CÓDIGO CODE | Ø INT. Ø INT. | MIN ESP. MIN WALL TH. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. | ABRAZADERAS DOBLE PUENTE W2 DOUBLE BRIDGE W2 |
|----------------|------------------|--------------------------|----------------|--------------------|-------------------------|-------------------------|----------------|-------------------------------------------------|
| | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| N901025000000* | 25,4 | 0,9 | 220 | 5 | 30 | 30 | 0,06 | - |
| N901027000000* | 27 | 0,9 | 245 | 5 | 30 | 30 | 0,06 | - |
| N901030000000* | 30 | 0,9 | 255 | 5 | 35 | 30 | 0,08 | - |
| N901032000000* | 31,8 | 0,9 | 270 | 5 | 35 | 30 | 0,08 | - |
| N901038000000* | 38,1 | 0,9 | 335 | 5 | 40 | 30 | 0,09 | - |
| N901040000000 | 40 | 0,9 | 345 | 5 | 40 | 30 | 0,12 | - |
| N901045000000* | 45 | 0,9 | 370 | 5 | 45 | 30 | 0,13 | - |
| N901052000000 | 50,8 | 0,9 | 410 | 4 | 50 | 30 | 0,18 | - |
| N901060000000 | 60 | 0,9 | 530 | 3 | 70 | 30 | 0,21 | - |
| N901063000000 | 63,5 | 0,9 | 570 | 3 | 70 | 30 | 0,30 | - |
| N901065000000* | 65 | 0,9 | 580 | 3 | 75 | 30 | 0,31 | - |
| N901076000000 | 76,2 | 0,9 | 675 | 3 | 90 | 30 | 0,36 | - |
| N901080000000 | 80 | 0,9 | 680 | 3 | 95 | 30 | 0,37 | - |
| N901090000000* | 90 | 0,9 | 765 | 2,5 | 105 | 20 | 0,28 | - |
| N901100000000 | 100 | 0,9 | 910 | 2 | 135 | 20 | 0,31 | - |
| N901102000000 | 102 | 0,9 | 925 | 2 | 135 | 20 | 0,31 | - |
| N901110000000 | 110 | 0,9 | 965 | 2 | 145 | 20 | 0,51 | F2 W2 100.0 127.0 |
| N901120000000 | 120 | 0,9 | 1060 | 1,5 | 160 | 20 | 0,55 | - |
| N901127000000 | 127 | 0,9 | 1120 | 1,5 | 210 | 20 | 0,58 | - |
| N901140000000* | 140 | 0,9 | 1160 | 1 | 185 | 20 | 0,64 | - |
| N901152000000 | 152,4 | 0,9 | 1375 | 1 | 230 | 20 | 0,82 | F2 W2 130.0 190.0 |
| N901160000000* | 160 | 0,9 | 1455 | 1 | 250 | 20 | 0,86 | - |
| N901180000000* | 180 | 0,9 | 1635 | 0,5 | 270 | 20 | 0,96 | - |
| N9012030000000 | 203,2 | 0,9 | 2015 | 0,5 | 300 | 15 | 1,08 | F2 W2 200.0 230.0 |
| N901250000000* | 250 | 0,9 | 2840 | 0,3 | 440 | tramo 10 m/ straight | 0,67 | - |
| N901254000000* | 254 | 0,9 | 2885 | 0,3 | 440 | tramo 10 m/ straight | 0,69 | F2 W2 250.0 330.0 |
| N901305000000* | 305 | 0,9 | 4295 | 0,2 | 530 | tramo 10 m/ straight | 0,99 | - |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% humidity.



ES Tubo translucido de TPU a base de éster reforzado con espiral de acero recubierto de TPU de color cobre, para garantizar una óptima adhesión con la pared y asegurar la máxima seguridad en uso. Superficie interna completamente lisa para optimizar el flujo del material transportado; espesor de pared 1,5 mm constante para todos los diámetros. Realizado con un TPU especial dotado de características combinadas que convierten el material de la pared en antiestático permanente ($R < 10^9$ Ohm/metro), y resistente a los rayos UV. Capacidad de resistencia a la abrasión de 20 mm^3 (50% más alta de aquella de un tubo normal de TPU). Resistente a los aceites minerales, el envejecimiento, la intemperie, el ozono y muchos productos químicos. Resistencia superior a la hidrólisis respecto a los tubos normales de TPU éster. Conductivo conectando la espiral a tierra ($R < 10^2$ Ohm/m).

- Industria de la cerámica y de la madera, plantas de aspiración de serrín, humos, y polvos abrasivos. Para aspiradoras industriales, compresores, sistemas de distribución de gránulos en la industria del plástico y máquinas de impresión.

EN Translucent, ester-based TPU hose reinforced with a copper-coloured TPU-coated steel spiral, to ensure optimum adhesion to the wall and maximum safety in use. Completely smooth inner surface to optimise the flow of transported media; constant 1,5 mm wall thickness for all diameters. Robust yet light and flexible, it is also suitable for heavy-duty applications thanks to an abrasion resistance capacity of 20 mm^3 (50% more than a normal TPU hose). Resistant to mineral oils, ageing, weathering, ozone and many chemicals. NEXT 15 is made of special TPU with combined characteristics that make the wall material permanently antistatic ($R < 10^9$ Ohm/m) and UV-resistant. The excellent quality of the compound used also offers superior resistance to hydrolytic attack if compared to normal ester based TPU hoses. The hose can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

- Passage of highly abrasive granulates, pellets, dusts and chips. For industrial vacuums, compressors, granulate conveying systems, in the plastics industry and on printing presses.

CÓD. N5
Ø mm 40-203



TPU a base de éster
Ester based TPU hose

Espiral de acero recubierta de TPU de color cobre
TPU coated copper colored steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|----------------------------------------------------------------------------------------------------------------|-----------------|-----------------|--------|--------------|--------|--------------------|--------------|------------|-------------------|-----------------------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VAC. | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| <p>constante 1,5 constant</p> <p>Abrazaderas doble puente W2 / Double bridge W2</p> <p>F2 W2 p.122</p> | | N5010400000000 | 40 | 1,5 | 475 | 9,5 | 90 | 30 | 0,12 | - |
| | | N5010450000000* | 45 | 1,5 | 585 | 9 | 90 | 30 | 0,14 | - |
| | | N5010520000000 | 50,8 | 1,5 | 640 | 9 | 90 | 30 | 0,19 | - |
| | | N5010600000000 | 60 | 1,5 | 765 | 8,5 | 95 | 30 | 0,22 | - |
| | | N5010630000000* | 63,5 | 1,5 | 880 | 8 | 100 | 30 | 0,31 | - |
| | | N5010650000000* | 65 | 1,5 | 900 | 7,5 | 100 | 30 | 0,32 | - |
| | | N5010760000000 | 76,2 | 1,5 | 1160 | 7 | 110 | 30 | 0,37 | - |
| | | N5010800000000 | 80 | 1,5 | 1170 | 6 | 110 | 30 | 0,39 | - |
| | | N5010900000000* | 90 | 1,5 | 1305 | 5 | 115 | 20 | 0,29 | - |
| | | N5011000000000 | 100 | 1,5 | 1365 | 4 | 120 | 20 | 0,32 | F2 W2 100.0 127.0 |
| | | N5011020000000 | 102 | 1,5 | 1390 | 4 | 120 | 20 | 0,32 | |
| | | N5011100000000* | 110 | 1,5 | 1450 | 3,2 | 130 | 20 | 0,52 | |
| | | N5011200000000 | 120 | 1,5 | 1580 | 3 | 150 | 20 | 0,56 | F2 W2 130.0 190.0 |
| | | N5011270000000* | 127 | 1,5 | 1665 | 2,9 | 150 | 20 | 0,59 | |
| | | N5011400000000* | 140 | 1,5 | 2015 | 2,4 | 170 | 20 | 0,65 | |
| | N5011520000000 | 152,4 | 1,5 | 2190 | 2 | 200 | 20 | 0,83 | F2 W2 200.0 230.0 | |
| | N5011600000000* | 160 | 1,5 | 2295 | 1,8 | 250 | 20 | 0,87 | | |
| | N5011800000000* | 180 | 1,5 | 2575 | 1,5 | 300 | 20 | 0,97 | | |
| | N5012030000000* | 203,2 | 1,5 | 3510 | 1,2 | 300 | 15 | 1,10 | | |

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



NEXT 07 (cód. N7) p.28



NEXT 09 (cód. N9) p.29



NEXT 15 ET (cód. N5 ET) p.22

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% umidity.

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EOLO PU EST



ES Tubo transparente de TPU a base de éster, con espiral de refuerzo de PVC rígido antichoque, de color gris oscuro; superficie interna perfectamente lisa, externa corrugada, es muy ligero y flexible. Presenta una notable resistencia a la abrasión y a la flexión; espesor de pared de 0,4 mm a 0,8 mm. Versión antiestática con hilo de cobre (cód. OU 02) según pedido.

- Aspiración de polvos grava, gránulos y substancias abrasivas de la industria en general.

EN Transparent, ester-based TPU spiral hose reinforced with dark grey, anti-shock rigid PVC spiral. Wall thickness from 0,4 mm to 0,8 mm. The perfectly smooth inner surface guarantees maximum flow. Very light and flexible, it has considerable resistance to abrasion, bending, UV, ozone and weathering. AS version with copper wire (Code OU 02) available on request.

- Suction of abrasive dust, fibres, chips, granules. For dedusting and industrial suction.

CÓD. OU
Ø mm 13-300

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral

TPU a base de éster
Ester based TPU hose



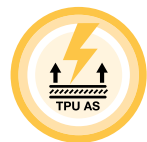
| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|-----------------------------|-----------------|--------|--------------|--------------|--------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | en stock available on stock | OU010130000000* | 13 | 0,4 | 2,8 | 80 | 2,5 | 20 | 20 | 0,013 |
| | | OU010160000000* | 16 | 0,4 | 2,8 | 100 | 2,5 | 25 | 20 | 0,018 |
| | | OU010190000000* | 19,1 | 0,4 | 2,8 | 120 | 2,5 | 25 | 20 | 0,022 |
| | | OU010200000000 | 20 | 0,4 | 2,8 | 120 | 2,5 | 25 | 20 | 0,025 |
| | | OU010220000000* | 22 | 0,4 | 2,8 | 130 | 2,5 | 28 | 20 | 0,028 |
| | | OU010250000000 | 25 | 0,4 | 2,8 | 150 | 2,5 | 30 | 20 | 0,034 |
| | | OU010300000000 | 30 | 0,4 | 2,8 | 180 | 2,5 | 35 | 20 | 0,051 |
| | | OU010320000000 | 31,8 | 0,4 | 2,9 | 200 | 2 | 35 | 20 | 0,054 |
| | | OU010350000000 | 35 | 0,5 | 3 | 220 | 2 | 45 | 20 | 0,059 |
| | | OU010380000000 | 38,1 | 0,5 | 3,1 | 250 | 2 | 50 | 20 | 0,064 |
| | | OU010400000000 | 40 | 0,5 | 3,1 | 260 | 2 | 60 | 20 | 0,067 |
| | | OU010450000000 | 45 | 0,5 | 3,2 | 310 | 2 | 65 | 20 | 0,099 |
| | | OU010500000000* | 50 | 0,5 | 3,4 | 350 | 2 | 70 | 20 | 0,109 |
| | | OU010520000000 | 50,8 | 0,5 | 3,4 | 360 | 2 | 70 | 20 | 0,111 |
| | | OU010550000000* | 55 | 0,5 | 3,6 | 420 | 2 | 75 | 20 | 0,119 |
| | | OU010600000000 | 60 | 0,5 | 3,8 | 500 | 1,6 | 80 | 20 | 0,173 |
| | | OU010630000000 | 63,5 | 0,5 | 3,9 | 550 | 1,6 | 80 | 20 | 0,183 |
| | | OU010650000000* | 65 | 0,5 | 3,9 | 560 | 1,6 | 90 | 20 | 0,186 |
| | | OU010700000000 | 70 | 0,6 | 4,2 | 600 | 1,6 | 95 | 30 | 0,339 |
| | | OU010760000000 | 76,2 | 0,6 | 4,2 | 650 | 1,6 | 100 | 30 | 0,365 |
| | | OU010800000000 | 80 | 0,6 | 4,5 | 700 | 1,6 | 110 | 30 | 0,384 |
| | | OU010900000000 | 90 | 0,6 | 4,6 | 810 | 1,4 | 125 | 30 | 0,429 |
| | | OU011000000000 | 100 | 0,6 | 4,8 | 870 | 1,3 | 140 | 30 | 0,631 |
| | | OU011020000000 | 102 | 0,6 | 4,8 | 890 | 1,3 | 140 | 30 | 0,643 |
| | | OU011100000000 | 110 | 0,6 | 5,1 | 1020 | 1,2 | 150 | 30 | 0,692 |
| | | OU011200000000 | 120 | 0,6 | 5,4 | 1220 | 1 | 160 | 30 | 0,753 |
| | | OU011270000000 | 127 | 0,6 | 5,4 | 1290 | 1 | 170 | 30 | 0,794 |
| | | OU011300000000 | 130 | 0,7 | 5,7 | 1470 | 0,9 | 170 | 20 | 0,611 |
| | | OU011400000000 | 140 | 0,7 | 5,7 | 1580 | 0,9 | 180 | 20 | 0,654 |
| | | OU011500000000 | 151,5 | 0,7 | 5,8 | 1630 | 0,8 | 200 | 20 | 0,939 |
| | | OU011520000000 | 152,4 | 0,7 | 5,8 | 1640 | 0,8 | 200 | 20 | 0,945 |
| | | OU011600000000 | 160 | 0,7 | 7,2 | 2100 | 0,7 | 220 | 20 | 0,893 |
| | | OU011800000000 | 180 | 0,7 | 7,2 | 2350 | 0,4 | 250 | 20 | 0,995 |
| | | OU012000000000 | 200 | 0,7 | 7,2 | 2420 | 0,4 | 260 | 20 | 1,647 |
| | | OU012030000000 | 203,2 | 0,7 | 7,2 | 2460 | 0,4 | 260 | 20 | 1,671 |
| | | OU012500000000 | 250 | 0,8 | 8 | 3640 | 0,4 | 300 | 10 | 1,362 |
| | | OU013000000000 | 300 | 0,8 | 8,2 | 4540 | 0,3 | 350 | 10 | 1,620 |

| ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES | | ARTÍCULOS JP (VERSIÓN ANTIESTÁTICA) / JP AS VERSION ITEMS | | | | | | | | |
|---------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|------|-----|-----|-----|---|----|----|-------|
| | F2 W2 p.122 Abrazaderas doble puente W2 / Double bridge W2 | OU020400000000 | 40 | 0,5 | 3,1 | 320 | 2 | 60 | 20 | 0,067 |
| | EOLO PU EST ASW (cód. OU 86) p.32 | OU020520000000 | 50,8 | 0,5 | 3,4 | 430 | 2 | 70 | 20 | 0,111 |
| | EOLO PUP EST (cód. OP) p.33 | | | | | | | | | |
| | ZEUS PU EST (cód. OZ) p.34 | | | | | | | | | |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. The technical data here reported have been measured at 23°C with 50% humidity.

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EOLO PU EST ASW



(ES) Tubo transparente con la pared de TPU ESPECIAL a base de éster con propiedades antiestáticas permanentes ($R < 10^9$ Ohm/m), que facilitan la continua disipación de las cargas electrostáticas, además de mejorar el flujo, permite que se desprendan fácilmente los residuos de la pared del tubo. **Espiral de refuerzo de PVC rígido antichoque de color gris oscuro.** Buena resistencia a la abrasión y a la flexión. Espesor de pared de 0,4 mm a 0,8 mm. Versión antiestática con hilo de cobre (cód. OU 87) según pedido.

- Aspiración de polvos, gránulos y substancias abrasivas de la industria en general.

(EN) Transparent spiral hose, made with a special ester-based TPU wall with permanent antistatic properties ($R < 10^9$ Ohm/m) that facilitate the continuous dissipation of electrostatic charges, as well as improving flow performance, as the transported media easily detaches from the hose wall. **The hose is reinforced with a dark grey, anti-shock, rigid PVC spiral.** Completely smooth inner surface, corrugated outer surface. Good abrasion and bending resistance; wall thickness from 0,4 to 0,8 mm. Available on request, the AS version with copper wire (Cod. OU 87)

- Suction of abrasive dust, chips, granules and abrasive substances in industry in general.

CÓD. OU 86
Ø mm 13-300



TPU a base de éster
Ester based TPU hose

Espiral de PVC
rígido antichoque
Anti-shock rigid
PVC spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|----------------|-----------------|--------|--------------|--------------|--------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | | OU860130000000* | 13 | 0,4 | 2,8 | 80 | 2,5 | 20 | 20 | 0,013 |
| | | OU860160000000* | 16 | 0,4 | 2,8 | 100 | 2,5 | 25 | 20 | 0,018 |
| | | OU860190000000* | 19,1 | 0,4 | 2,8 | 120 | 2,5 | 25 | 20 | 0,022 |
| | | OU860200000000 | 20 | 0,4 | 2,8 | 120 | 2,5 | 25 | 20 | 0,025 |
| | | OU860220000000* | 22 | 0,4 | 2,8 | 130 | 2,5 | 28 | 20 | 0,028 |
| | | OU860250000000 | 25 | 0,4 | 2,8 | 150 | 2,5 | 30 | 20 | 0,034 |
| | | OU860300000000 | 30 | 0,4 | 2,8 | 170 | 2,5 | 35 | 20 | 0,051 |
| | | OU860320000000 | 31,8 | 0,4 | 2,9 | 190 | 2 | 35 | 20 | 0,054 |
| | | OU860350000000 | 35 | 0,5 | 3 | 220 | 2 | 45 | 20 | 0,059 |
| | | OU860380000000 | 38,1 | 0,5 | 3,1 | 250 | 2 | 50 | 20 | 0,064 |
| | | OU860400000000 | 40 | 0,5 | 3,1 | 260 | 2 | 60 | 20 | 0,067 |
| | | OU860450000000 | 45 | 0,5 | 3,2 | 300 | 2 | 65 | 20 | 0,099 |
| | | OU860500000000* | 50 | 0,5 | 3,4 | 350 | 2 | 70 | 20 | 0,11 |
| | | OU860520000000 | 50,8 | 0,5 | 3,4 | 360 | 2 | 70 | 20 | 0,11 |
| | | OU860550000000* | 55 | 0,5 | 3,6 | 420 | 2 | 75 | 20 | 0,12 |
| | | OU860600000000 | 60 | 0,5 | 3,8 | 500 | 1,6 | 80 | 20 | 0,17 |
| | | OU860630000000 | 63,5 | 0,5 | 3,9 | 550 | 1,6 | 80 | 20 | 0,18 |
| | | OU860650000000* | 65 | 0,5 | 3,9 | 560 | 1,6 | 90 | 20 | 0,19 |
| | | OU860700000000 | 70 | 0,6 | 4,2 | 600 | 1,6 | 95 | 30 | 0,34 |
| | | OU860760000000 | 76,2 | 0,6 | 4,2 | 650 | 1,6 | 100 | 30 | 0,37 |
| | OU860800000000 | 80 | 0,6 | 4,5 | 690 | 1,6 | 110 | 30 | 0,38 | |
| | OU860900000000 | 90 | 0,6 | 4,6 | 800 | 1,4 | 125 | 30 | 0,43 | |
| | OU861000000000 | 100 | 0,6 | 4,8 | 870 | 1,3 | 140 | 30 | 0,63 | |
| | OU861020000000 | 102 | 0,6 | 4,8 | 880 | 1,3 | 140 | 30 | 0,64 | |
| | OU861100000000 | 110 | 0,6 | 5,1 | 1010 | 1,2 | 150 | 30 | 0,69 | |
| | OU861200000000 | 120 | 0,6 | 5,4 | 1210 | 1 | 160 | 30 | 0,75 | |
| | OU861270000000 | 127 | 0,6 | 5,4 | 1270 | 1 | 170 | 30 | 0,79 | |
| | OU861300000000 | 130 | 0,7 | 5,7 | 1460 | 0,9 | 170 | 20 | 0,61 | |
| | OU861400000000 | 140 | 0,7 | 5,7 | 1560 | 0,9 | 180 | 20 | 0,65 | |
| | OU861500000000 | 151,5 | 0,7 | 5,8 | 1620 | 0,8 | 200 | 20 | 0,94 | |
| | OU861520000000 | 152,4 | 0,7 | 5,8 | 1630 | 0,8 | 200 | 20 | 0,84 | |
| | OU861600000000 | 160 | 0,7 | 7,2 | 2080 | 0,7 | 220 | 20 | 0,89 | |
| | OU861800000000 | 180 | 0,7 | 7,2 | 2330 | 0,4 | 250 | 20 | 1,49 | |
| | OU862000000000 | 200 | 0,7 | 7,2 | 2400 | 0,4 | 260 | 20 | 1,65 | |
| | OU862030000000 | 203,2 | 0,7 | 7,2 | 2440 | 0,4 | 260 | 20 | 1,67 | |
| | OU862500000000 | 250 | 0,8 | 8 | 3620 | 0,4 | 300 | 10 | 1,36 | |
| | OU863000000000 | 300 | 0,8 | 8,2 | 4500 | 0,3 | 350 | 10 | 1,62 | |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

EOLO PUP EST



ES Tubo transparente de TPU a base de éster, con espiral de refuerzo en PVC rígido antichoque de color gris oscuro.

Espesor de pared de 0,8 mm a 1,00 mm. Superficie interna perfectamente lisa. Alta flexibilidad, incluso a bajas temperaturas; notabe resistencia a la abrasión y a la flexión. Versión antiestática con hilo de cobre (cód. OP 02) según pedido.

- Transporte de gravilla, y granulados abrasivos ; industria de materias plasticas, cerámica, industria de la madera.

EN Transparent, ester-based TPU spiral hose, reinforced with dark grey, anti-shock rigid PVC spiral.

Wall thickness from 0,8 mm to 1,0 mm. The perfectly smooth inner surface guarantees maximum flow. Good resistance to abrasion and bending. On request, it is available in AS version with copper wire (Cod. OP 02).

- Transport of dust, chips and abrasive granules. Particularly suitable for the plastics, ceramics and woodworking industries under severe conditions of use.

CÓD. OP

Ø mm 30-254

Espiral de PVC rígido antichoque
Anti-shock rigid
PVC spiral



TPU a base de éster
Ester based TPU hose



FICHA TÉCNICA · TECHNICAL DATA



en stock
available on stock



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO PU EST (cód. OU 01) p.31



ZEUS PU EST (cód. OZ) p.34

| CÓDIGO CODE | Ø INT. Ø INT. | MIN ESP. MIN WALL TH. | MAX ESP. MAX WALL TH. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. |
|-----------------|------------------|--------------------------|--------------------------|----------------|--------------------|-------------------------|-------------------------|----------------|
| | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| OP010300000000* | 30 | 0,8 | 3,3 | 260 | 3,5 | 100 | 30 | 0,07 |
| OP010320000000* | 31,8 | 0,8 | 3,3 | 280 | 3 | 110 | 30 | 0,07 |
| OP010350000000* | 35 | 0,8 | 3,5 | 310 | 3 | 120 | 30 | 0,08 |
| OP010380000000 | 38,1 | 0,8 | 3,5 | 330 | 3 | 130 | 30 | 0,09 |
| OP010390000000* | 39 | 0,8 | 3,5 | 340 | 3 | 135 | 30 | 0,12 |
| OP010400000000 | 40 | 1 | 3,6 | 380 | 3 | 140 | 30 | 0,12 |
| OP010450000000 | 45 | 1 | 3,9 | 480 | 3 | 160 | 30 | 0,15 |
| OP010500000000* | 50 | 1 | 4,3 | 590 | 3 | 175 | 30 | 0,17 |
| OP010520000000 | 50,8 | 1 | 4,3 | 600 | 3 | 175 | 30 | 0,17 |
| OP010600000000 | 60 | 1 | 4,3 | 700 | 3 | 200 | 30 | 0,30 |
| OP010630000000 | 63,5 | 1 | 4,3 | 730 | 3 | 230 | 30 | 0,31 |
| OP010650000000* | 65 | 1 | 4,3 | 750 | 3 | 230 | 30 | 0,32 |
| OP010700000000 | 70 | 1 | 4,8 | 820 | 3 | 250 | 30 | 0,34 |
| OP010760000000 | 76,2 | 1 | 4,8 | 890 | 2,5 | 270 | 30 | 0,37 |
| OP010800000000 | 80 | 1 | 5,2 | 990 | 2,5 | 290 | 30 | 0,39 |
| OP010900000000 | 90 | 1 | 5,4 | 1170 | 2,5 | 360 | 30 | 0,58 |
| OP011000000000 | 100 | 1 | 5,9 | 1360 | 2,5 | 400 | 30 | 0,64 |
| OP011020000000 | 102 | 1 | 5,9 | 1390 | 2,5 | 400 | 30 | 0,66 |
| OP011100000000* | 110 | 1 | 6,1 | 1510 | 2,5 | 440 | 30 | 0,70 |
| OP011200000000 | 120 | 1 | 6,1 | 1640 | 2,5 | 470 | 30 | 1,02 |
| OP011270000000* | 127 | 1 | 6,1 | 1730 | 2,5 | 500 | 30 | 1,07 |
| OP011300000000* | 130 | 1 | 6,1 | 1770 | 2,5 | 520 | 30 | 1,09 |
| OP011400000000* | 140 | 1 | 6,2 | 1950 | 2 | 570 | 30 | 1,56 |
| OP011500000000* | 151,5 | 1 | 6,6 | 2170 | 2 | 600 | 20 | 1,26 |
| OP011520000000* | 152,4 | 1 | 6,6 | 2180 | 2 | 600 | 20 | 1,27 |
| OP012540000000* | 254 | 1,2 | 9,4 | 4030 | 1 | 500 | 10 | 1,40 |

ARTÍCULOS JP (VERSIONE AS) / JP AS VERSION ITEMS

| | | | | | | | | |
|----------------|------|---|-----|------|-----|-----|----|-------|
| OP020520000000 | 50,8 | 1 | 4,3 | 670 | 3 | 175 | 30 | 0,171 |
| OP020600000000 | 60 | 1 | 4,3 | 780 | 3 | 200 | 30 | 0,296 |
| OP021020000000 | 102 | 1 | 5,9 | 1500 | 2,5 | 400 | 30 | 0,655 |

*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ZEUS PU EST



ES Tubo transparente de TPU a base de éster, con espiral de refuerzo en PVC rígido antichoque de color gris oscuro. Espesor de pared de 1,2 mm a 2,0 mm. Superficie interna perfectamente lisa. Alta flexibilidad, incluso a bajas temperaturas; no tiene resistencia a la abrasión y a la flexión. Versión antiestática con hilo de cobre (cód. OZ 02) según pedido.

• Transporte de gravilla, y granulados altamente abrasivos ; industria de materias plásticas, cerámica, industria de la madera, en condiciones de uso severas.

EN Transparent, ester-based TPU spiral hose, reinforced with dark grey, anti-shock rigid PVC spiral. Wall thickness from 1,2 mm to 2,0 mm. The perfectly smooth inner surface guarantees maximum flow. Good resistance to abrasion and bending. On request, it is available in AS version with copper wire (Cod. OZ 02).

• Transport of dust, chips and highly abrasive granules. Particularly suitable for the plastics, ceramics and woodworking industries under severe conditions of use.

CÓD. OZ
Ø mm 30-102

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



TPU a base de éster
Ester based TPU hose



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|-----------------|--------|--------------|--------------|--------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | OZ010300000000* | 30 | 1,2 | 3,7 | 340 | 9 | 130 | 30 | 0,07 |
| | OZ010320000000* | 31,8 | 1,2 | 3,7 | 360 | 9 | 140 | 30 | 0,08 |
| | OZ010350000000* | 35 | 1,3 | 3,9 | 400 | 9 | 160 | 30 | 0,08 |
| | OZ010380000000* | 38,1 | 1,3 | 3,9 | 440 | 9 | 180 | 30 | 0,12 |
| | OZ010400000000* | 40 | 1,5 | 4,2 | 530 | 9 | 190 | 30 | 0,12 |
| | OZ010450000000* | 45 | 1,5 | 4,3 | 610 | 8 | 200 | 30 | 0,15 |
| | OZ010520000000* | 50,8 | 1,5 | 4,7 | 730 | 8 | 215 | 30 | 0,17 |
| | OZ010600000000* | 60 | 1,5 | 4,9 | 910 | 8 | 230 | 30 | 0,30 |
| | OZ010630000000* | 63,5 | 1,5 | 4,9 | 960 | 8 | 240 | 30 | 0,32 |
| | OZ010650000000* | 65 | 1,5 | 4,9 | 980 | 8 | 240 | 30 | 0,32 |
| | OZ010700000000* | 70 | 1,5 | 5,2 | 1020 | 8 | 250 | 30 | 0,35 |
| | OZ010760000000* | 76,2 | 1,7 | 5,4 | 1190 | 8 | 270 | 30 | 0,38 |
| | OZ010800000000* | 80 | 2 | 6 | 1400 | 7 | 290 | 30 | 0,40 |
| | OZ010900000000* | 90 | 2 | 6 | 1570 | 7 | 380 | 30 | 0,59 |
| | OZ011000000000* | 100 | 2 | 6,3 | 1740 | 7 | 420 | 30 | 0,65 |
| | OZ011020000000* | 102 | 2 | 6,3 | 1770 | 7 | 420 | 30 | 0,66 |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



EOLO PU EST (cód. OU 01) p.31



EOLO PUP EST (cód. OP) p.33

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

(ES) Tubo de PVC-P gris con capa inferior de TPU antiabrasivo color rojo y espiral de refuerzo de PVC rígido antichoque. Superficie interna lisa, externa semi lisa, muy resistente e indicado para trabajos pesados. La versión antiestática (disponible según pedido) se produce con hilo de cobre introducido en la pared plástica para responder mejor a las exigencias de resistencia a la abrasión, incluso al exterior (cód.UR 02).

• Industria de la construcción : aspiración y transporte de material altamente abrasivo(arena, cemento, residuos, gravilla, escombros). Utilizado en la versión antiestática para el transporte de pellets en la industria de la madera.

(EN) Grey PVC-P spiral hose with red anti-abrasive TPU lining, reinforced with an anti-shock rigid PVC spiral. Smooth inner surface, semi-rigid outside. Its robust structure, together with the polyurethane layer, make it particularly suitable for heavy duty applications and in highly abrasive conditions. The antistatic version (available on request) is produced with brass-plated steel wire inserted in the plastic wall, to meet still better the abrasion resistance requirements even on the external surface (Code UR 02).

• In construction and industry in general, suction and discharge of abrasive liquids (slurry, sand, cement, grit, gravel). In Woodworking the AS version is often used for the passage of pellets.

CÓD. UR

Ø mm 32-152

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral

Capa inferior de TPU antiabrasivo
Antiabrasive TPU liner

Tubo en PVC-P
PVC-P hose



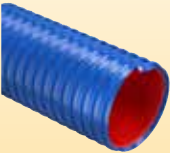
| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--------------------------------|-----------------|--------|--------------|--------------|--------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | en stock available on stock | UR010320000000* | 31,8 | 3,6 | 4,3 | 530 | 10 | 125 | 50 | 0,129 |
| | | UR010380000000* | 38,1 | 3,9 | 4,7 | 680 | 10 | 155 | 50 | 0,182 |
| | | UR010400000000* | 40 | 3,9 | 4,7 | 710 | 10 | 160 | 50 | 0,221 |
| | | UR010450000000* | 45 | 4 | 4,9 | 830 | 10 | 180 | 50 | 0,246 |
| | | UR010500000000* | 50 | 4,3 | 5,2 | 980 | 9 | 200 | 50 | 0,261 |
| | | UR010520000000 | 50,8 | 4,3 | 5,2 | 990 | 9 | 200 | 50 | 0,264 |
| | | UR010600000000* | 60 | 4,5 | 5,5 | 1230 | 9 | 240 | 50 | 0,409 |
| | | UR010630000000* | 63,5 | 4,7 | 5,7 | 1360 | 9 | 260 | 50 | 0,539 |
| | | UR010700000000* | 70 | 5 | 6,1 | 1570 | 9 | 280 | 50 | 0,592 |
| | | UR010760000000 | 76 | 5 | 6,1 | 1690 | 9 | 310 | 50 | 0,677 |
| | | UR010800000000* | 80 | 5,1 | 6,2 | 1790 | 9 | 320 | 50 | 0,710 |
| | | UR010900000000 | 90 | 5,3 | 6,4 | 2090 | 9 | 360 | 30 | 0,526 |
| | | UR011000000000* | 100 | 6 | 7,3 | 2650 | 8,5 | 410 | 30 | 0,880 |
| | | UR011020000000 | 102 | 6 | 7,3 | 2700 | 8,5 | 410 | 30 | 0,895 |
| | | UR011100000000* | 110 | 6,1 | 7,4 | 2930 | 8,5 | 450 | 30 | 0,998 |
| | | UR011200000000* | 120 | 6,2 | 7,6 | 3270 | 8 | 480 | 30 | 1,082 |
| | | UR011270000000* | 127 | 6,3 | 7,7 | 3510 | 8 | 510 | 30 | 1,139 |
| | | UR011500000000* | 151,5 | 6,7 | 8,9 | 4700 | 8 | 610 | 20 | 1,354 |
| | | UR011520000000 | 152,4 | 6,7 | 8,9 | 4730 | 8 | 610 | 20 | 1,362 |

JP
en stock
available on stock

3,6-6,7

+60°C
-25°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



URANO HD SUPER (cód.UH) p.36

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

ARTÍCULOS JP (VERSIÓN ANTIESTÁTICA) / JP AS VERSION ITEMS

| | | | | | | | | |
|----------------|-----|---|-----|------|-----|-----|----|-------|
| UR021020000000 | 102 | 6 | 7,3 | 2730 | 8,5 | 410 | 30 | 0,895 |
|----------------|-----|---|-----|------|-----|-----|----|-------|

URANO HD SUPER



ES Tubo de PVC-P de color azul revestido internamente de TPU antiabrasivo rojo y con una espiral de refuerzo de PVC rígido antichoque. Superficie interna lisa y externa semi lisa. Capa inferior de TPU de hasta 2,2 mm de espesor; óptima resistencia a la abrasión y a la depresión, es la mejor de su categoría. La versión antiestática (disponible según pedido) se produce con hilo de cobre introducido en la pared plástica para responder mejor a las exigencias de resistencia a la abrasión incluso al exterior (cód. UH 02).

- Industria de la construcción : aspiración y transporte de material altamente abrasivo, (arena, cemento, residuos, gravilla, escombros).

EN Blue PVC-P spiral hose with red anti-abrasive TPU lining, reinforced with an anti-shock rigid PVC spiral. Smooth inner surface, semi-rigid outside. Very robust with TPU underlay up to 2,2 mm. Excellent resistance to abrasion and vacuum, best in class. The antistatic version (available on request) is produced with brass-plated steel wire inserted in the plastic wall, to meet still better the abrasion resistance requirements even on the external surface (Code UH 02).

- Suction and discharge of abrasive substances, (slush, sand, cement, gravel), in construction and industry in general.

CÓD. UH
Ø mm 63-152

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose

Capa inferior de TPU antiabrasivo
Antiabrasive TPU liner



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--------|--------------|--------------|----------|--------------------|---------|------------|----------------|-----------|------|
| CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | | |
| | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ | | |
| UH010630000000* | 63,5 | 4,9 | 6,5 | 1430 | 10 | 390 | 50 | 0,783 | | |
| UH010760000000* | 76,2 | 5,4 | 7,4 | 1910 | 10 | 470 | 50 | 0,932 | | |
| UH011020000000 | 102 | 6,7 | 9,6 | 3310 | 9,5 | 600 | 30 | 1,454 | | |
| UH011270000000 | 127 | 7,1 | 10,1 | 4430 | 9,5 | 750 | 30 | 1,766 | | |
| UH011520000000 | 152 | 8,8 | 12 | 6350 | 9,5 | 900 | 20 | 1,704 | | |

4,9-8,8

+60°C
-25°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



URANO PU (cód. UR) p.35

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ARIANNA PU



(ES) Tubo de color azul de TPU con refuerzo en hilo de poliéster de alta tenacidad. Muy ligero y flexible incluso a bajas temperaturas; elevada resistencia a la abrasión, a la hidrólisis y a la flexión.

- Aire comprimido, neumático, circuitos de refrigeración, pistola de pintura, chorro de arena y aspiración de material abrasivo.

(EN) Blue TPU hose with high tenacity polyester yarn reinforcement. Very light and flexible even at low temperatures; high resistance to abrasion, bending and hydrolysis. High safety margin on fittings.

- Compressed air, pneumatics, cooling circuits, gun painting, sand-blasting and wherever abrasion resistance is required.


CÓD. AU
Ø mm 6-13



Tubo en TPU
TPU hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA - TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------|--------|------|------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø EST. | WEIGHT | W.P. | B.P. | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | g/m | bar | bar | mm | m | m ³ |
|  <p>en stock available on stock</p>  <p>+80°C -40°C</p> | AU010060010000 | 6 | 10 | 60 | 20 | 60 | 30 | 100 | 0,020 |
| | AU010065010000 | 6,5 | 10 | 55 | 20 | 60 | 30 | 100 | 0,020 |
| | AU010075011500* | 7,5 | 11,5 | 75 | 20 | 60 | 40 | 100 | 0,025 |
| | AU010080012000 | 8 | 12 | 75 | 20 | 60 | 40 | 100 | 0,025 |
| | AU010095013500 | 9,7 | 13,7 | 90 | 20 | 60 | 50 | 100 | 0,032 |
| | AU010100014500 | 10 | 14,5 | 105 | 20 | 60 | 50 | 100 | 0,035 |
| | AU010110016000 | 11 | 16 | 130 | 20 | 60 | 60 | 100 | 0,041 |
| | AU010120017500 | 12 | 17,5 | 155 | 20 | 60 | 60 | 100 | 0,049 |
| | AU010130019000 | 13 | 19 | 185 | 20 | 60 | 70 | 100 | 0,058 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ARIANNA PU

Aire comprimido - Compressed air

Cod. AU 01

Especial TPU
Special TPU



EOLO SL
EOLO L
EOLO
EOLO SE

AIRE-HUMOS-GASES AIR, FUMES AND GASES

ES Tubo de PVC-P de color azul claro, con espiral de refuerzo de PVC rígido antichoque. Interno perfectamente liso, exterior corrugado. Es el más ligero de toda la gama. Resistente a bajas temperaturas.

- Ventilación y acondicionamiento industrial: aspiración de aire, humos y gases.

EN Light blue PVC-P spiral hose, with an anti-shock rigid PVC spiral. Perfectly smooth inner surface, corrugated outside. The lightest of the whole range. Resistant to low temperatures.

- Air extraction, fumes, gas. Air conditioning, ventilation.

CÓD. ES
Ø mm 25-203



Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral

Tubo en PVC-P
PVC-P hose



FICHA TÉCNICA · TECHNICAL DATA



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



EOLO L (cód. EL) p.41



EOLO (cód. EO) p.42



EOLO SE (cód. EE) p.43

| CÓDIGO CODE | Ø INT. Ø INT. | MIN ESP. MIN WALL TH. | MAX ESP. MAX WALL TH. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. |
|----------------|------------------|--------------------------|--------------------------|----------------|--------------------|-------------------------|-------------------------|----------------|
| | mm/inch | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| ES01025000000 | 25 | 0,6 | 2,5 | 140 | 0,8 | 30 | 30 | 0,039 |
| ES01027000000 | 27 | 0,6 | 2,5 | 150 | 0,8 | 40 | 30 | 0,052 |
| ES01030000000 | 30 | 0,6 | 2,5 | 160 | 0,8 | 40 | 30 | 0,061 |
| ES01032000000 | 31,8 | 0,7 | 2,5 | 180 | 0,7 | 40 | 30 | 0,061 |
| ES01035000000 | 35 | 0,7 | 2,6 | 200 | 0,7 | 40 | 30 | 0,087 |
| ES01038000000 | 38,1 | 0,7 | 2,6 | 210 | 0,7 | 50 | 30 | 0,094 |
| ES01039000000* | 39 | 0,7 | 2,7 | 230 | 0,7 | 55 | 30 | 0,112 |
| ES01040000000 | 40 | 0,7 | 2,7 | 230 | 0,7 | 50 | 30 | 0,114 |
| ES01045000000 | 45 | 0,7 | 2,7 | 260 | 0,7 | 80 | 30 | 0,145 |
| ES01050000000 | 50 | 0,7 | 2,9 | 300 | 0,7 | 90 | 30 | 0,161 |
| ES01051500000* | 51,5 | 0,7 | 2,9 | 310 | 0,7 | 90 | 30 | 0,165 |
| ES01052000000 | 50,8 | 0,7 | 2,9 | 310 | 0,7 | 90 | 30 | 0,163 |
| ES01055000000* | 55 | 0,7 | 3,1 | 360 | 0,7 | 95 | 30 | 0,176 |
| ES01060000000 | 60 | 0,7 | 3,4 | 440 | 0,6 | 100 | 30 | 0,192 |
| ES01063000000 | 63,5 | 0,7 | 3,5 | 490 | 0,6 | 100 | 30 | 0,203 |
| ES01065000000* | 65 | 0,7 | 3,5 | 500 | 0,6 | 100 | 30 | 0,311 |
| ES01070000000 | 70 | 0,7 | 3,8 | 520 | 0,5 | 110 | 30 | 0,335 |
| ES01076000000 | 76,2 | 0,7 | 3,8 | 560 | 0,5 | 120 | 30 | 0,362 |
| ES01077000000* | 77,7 | 0,7 | 3,8 | 570 | 0,5 | 120 | 30 | 0,368 |
| ES01080000000 | 80 | 0,8 | 4 | 620 | 0,5 | 130 | 30 | 0,380 |
| ES01090000000* | 90 | 0,8 | 4,1 | 720 | 0,4 | 150 | 30 | 0,424 |
| ES01100000000 | 100 | 0,8 | 4,3 | 800 | 0,4 | 160 | 30 | 0,626 |
| ES01102000000 | 102 | 0,8 | 4,3 | 810 | 0,4 | 160 | 30 | 0,637 |
| ES01103500000* | 103,5 | 0,8 | 4,3 | 820 | 0,4 | 170 | 30 | 0,646 |
| ES01110000000 | 110 | 0,8 | 4,7 | 950 | 0,4 | 190 | 30 | 0,688 |
| ES01120000000 | 120 | 0,8 | 4,8 | 1060 | 0,4 | 200 | 30 | 0,746 |
| ES01127000000 | 127 | 0,8 | 4,9 | 1160 | 0,3 | 230 | 30 | 0,985 |
| ES01130000000* | 130 | 0,8 | 5,1 | 1260 | 0,3 | 250 | 30 | 1,009 |
| ES01140000000* | 140 | 0,8 | 5,1 | 1360 | 0,3 | 260 | 30 | 1,081 |
| ES01150000000 | 151,5 | 0,9 | 5,5 | 1580 | 0,3 | 280 | 20 | 0,936 |
| ES01152000000 | 152,4 | 0,9 | 5,6 | 1630 | 0,3 | 280 | 20 | 0,942 |
| ES01160000000* | 160 | 1 | 6,1 | 1770 | 0,2 | 280 | 20 | 0,992 |
| ES01180000000* | 180 | 1 | 6,1 | 1980 | 0,2 | 450 | 20 | 1,476 |
| ES01200000000* | 200 | 1 | 6,6 | 2310 | 0,2 | 600 | 20 | 1,637 |
| ES01203000000* | 203,2 | 1 | 6,6 | 2350 | 0,2 | 600 | 20 | 1,662 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES Tubo de PVC-P de color gris oscuro, con espiral de refuerzo de PVC rígido antichoque. Superficie interna perfectamente lisa, externa corrugada. Más flexible y ligero que el EOLO, conserva sus características técnicas (resistencia, desgaste, flexión), gracias a una ratio óptima entre peso y resistencia mecánica. Resistente a las bajas temperaturas, a los agentes atmosféricos y a numerosas sustancias químicas. Versión antiestática con hilo de cobre (cód. EL 02) disponible según pedido.

• Ventilación y acondicionamiento industrial: aspiración de aire, humos y gases; industria de la madera para aspiración de serrín y astillas.

EN Dark grey PVC-P spiral hose, reinforced with an anti-shock rigid PVC spiral. Perfectly smooth inner surface, corrugated outside. More flexible and lighter than EOLO, it preserves its technical features (resistance, wear, bending), thanks to an optimal ratio between weight and mechanical resistance. It is resistant to weathering, many chemicals and low temperatures. AS version with copper wire is available on request (Cod. EL 02).

• Ventilation and industrial air conditioning: suction of air, fumes, gas, dust, sawdust, shavings.



Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral

Tubo en PVC-P
PVC-P hose

| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO CODE | Ø INT. Ø INT. | MIN ESP. MIN WALL TH. | MAX ESP. MAX WALL TH. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. |
|--------------------------------|--------------------------------|----------------|------------------|--------------------------|--------------------------|----------------|--------------------|-------------------------|-------------------------|----------------|
| | | | mm/inch | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | en stock available on stock | EL01025000000 | 25 | 0,8 | 2,7 | 160 | 2,5 | 30 | 50 | 0,073 |
| | | EL01027000000* | 27 | 0,8 | 2,7 | 170 | 2,5 | 30 | 50 | 0,082 |
| | | EL01030000000 | 30 | 0,8 | 2,8 | 200 | 2,5 | 40 | 50 | 0,115 |
| | | EL01032000000 | 31,8 | 0,8 | 2,8 | 210 | 2 | 40 | 50 | 0,121 |
| | | EL01035000000 | 35 | 0,8 | 2,9 | 220 | 2 | 40 | 50 | 0,131 |
| | | EL01038000000 | 38,1 | 0,8 | 3,1 | 270 | 2 | 50 | 50 | 0,142 |
| | | EL01039000000* | 39 | 0,8 | 3,1 | 270 | 2 | 50 | 50 | 0,145 |
| | | EL01040000000 | 40 | 0,8 | 3,1 | 280 | 2 | 50 | 50 | 0,177 |
| | | EL01045000000 | 45 | 0,8 | 3,4 | 350 | 2 | 60 | 50 | 0,199 |
| | | EL01050000000 | 50 | 0,9 | 3,7 | 430 | 2 | 60 | 50 | 0,248 |
| | | EL01051500000* | 51,5 | 0,9 | 3,7 | 440 | 2 | 60 | 50 | 0,254 |
| | | EL01052000000 | 50,8 | 0,9 | 3,7 | 440 | 2 | 60 | 50 | 0,251 |
| | | EL01055000000* | 55 | 0,9 | 3,7 | 470 | 2 | 70 | 50 | 0,270 |
| | | EL01060000000 | 60 | 0,9 | 3,7 | 510 | 1,6 | 80 | 50 | 0,388 |
| | | EL01063000000 | 63,5 | 0,9 | 3,7 | 540 | 1,6 | 80 | 50 | 0,408 |
| | | EL01065000000* | 65 | 0,9 | 3,7 | 550 | 1,6 | 80 | 50 | 0,417 |
| | | EL01070000000 | 70 | 1 | 3,9 | 590 | 1,5 | 90 | 50 | 0,448 |
| | | EL01075000000 | 75 | 1 | 4 | 650 | 1,5 | 90 | 50 | 0,598 |
| | | EL01076000000 | 76,2 | 1 | 4 | 660 | 1,5 | 100 | 50 | 0,606 |
| | | EL01077000000* | 77,7 | 1 | 4 | 670 | 1,5 | 100 | 50 | 0,617 |
| | | EL01080000000 | 80 | 1 | 4,6 | 790 | 1,5 | 100 | 50 | 0,642 |
| | | EL01090000000 | 90 | 1 | 4,6 | 890 | 1,4 | 110 | 30 | 0,429 |
| | | EL01100000000 | 100 | 1 | 4,9 | 1000 | 1,3 | 130 | 30 | 0,632 |
| | | EL01102000000 | 102 | 1 | 4,9 | 1020 | 1,3 | 130 | 30 | 0,644 |
| | | EL01103500000* | 103,5 | 1 | 4,9 | 1030 | 1,3 | 130 | 30 | 0,653 |
| | | EL01105000000* | 105 | 1 | 5 | 1070 | 1,2 | 130 | 30 | 0,662 |
| | | EL01110000000 | 110 | 1 | 5,2 | 1160 | 1,2 | 140 | 30 | 0,694 |
| | | EL01120000000 | 120 | 1 | 5,2 | 1260 | 1 | 150 | 30 | 0,751 |
| | | EL01125000000* | 125 | 1 | 5,2 | 1310 | 1 | 150 | 30 | 0,780 |
| | | EL01127000000 | 127 | 1 | 5,2 | 1330 | 1 | 150 | 30 | 0,791 |
| | | EL01130000000* | 130 | 1 | 5,2 | 1360 | 0,9 | 160 | 30 | 0,809 |
| | | EL01140000000* | 140 | 1 | 5,2 | 1460 | 0,9 | 170 | 30 | 1,155 |
| | | EL01150000000 | 151,5 | 1,1 | 5,6 | 1690 | 0,8 | 180 | 20 | 0,937 |
| | | EL01152000000* | 152,4 | 1,1 | 5,6 | 1700 | 0,8 | 180 | 20 | 0,942 |
| | | EL01160000000 | 160 | 1,1 | 6,3 | 1860 | 0,7 | 190 | 20 | 0,884 |
| | | EL01180000000 | 180 | 1,1 | 6,3 | 2090 | 0,4 | 210 | 20 | 0,986 |
| | | EL01200000000 | 200 | 1,1 | 6,5 | 2280 | 0,4 | 230 | 20 | 1,636 |
| | | EL01203000000* | 203,2 | 1,1 | 6,5 | 2310 | 0,4 | 230 | 20 | 1,660 |
| | | EL01250000000 | 250 | 1,2 | 7,3 | 3390 | 0,4 | 270 | 10 | 1,355 |
| | | EL01300000000 | 300 | 1,2 | 7,4 | 4140 | 0,3 | 300 | 10 | 1,612 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES Tubo de PVC-P en color gris, con espiral de refuerzo de PVC rígido antichoque. Superficie interna perfectamente lisa, y externa corrugada. Muy ligero y flexible. resistente a las bajas temperaturas, a los agentes atmosféricos y a numerosas substancias químicas. Versión antiestática con hilo de cobre (cód. EO 02) disponible según pedido.

• Acondicionamiento y ventilación industrial: aspiración de aire, humos y gases; industria de la madera para aspiración de serrín y astillas.

EN Grey PVC-P spiral hose, reinforced with an anti-shock rigid PVC spiral. Perfectly smooth inner surface, corrugated outside. Very light and flexible. Resistant to weathering and many chemicals. AS version with copper wire available on request (Code EO 02).

• Air extraction, fumes, gases, dust, sawdust, shavings. Air conditioning, industrial ventilation.



CÓD. EO

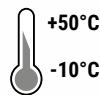
Ø mm 13-300

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo de PVC-P
PVC-P hose

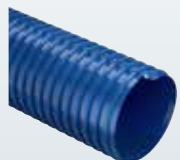
FICHA TÉCNICA · TECHNICAL DATA



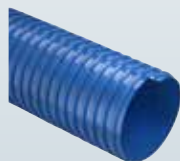
ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO L (cód. EL) p.41



EOLO SE (cód. EE) p.43



EOLO SL (cód. ES) p.40

| CÓDIGO CODE | Ø INT. mm/inch | MIN ESP. MIN WALL TH. mm | MAX ESP. MAX WALL TH. mm | PESO WEIGHT g/m | VACIO VACUUM m H ₂ O | R. CURVATURA BENDING mm | LG. ROLLO COIL LGTH. m | VOL. VOL. m ³ |
|-----------------|-------------------|--------------------------------|--------------------------------|-----------------------|---------------------------------------|-------------------------------|------------------------------|--------------------------------|
| EO010130000000* | 13 | 0,8 | 2,8 | 90 | 4,5 | 20 | 30 | 0,019 |
| EO010160000000 | 16 | 0,8 | 2,8 | 110 | 4,5 | 20 | 30 | 0,025 |
| EO010190000000 | 19,1 | 0,8 | 2,8 | 130 | 4 | 30 | 30 | 0,032 |
| EO010200000000 | 20 | 0,8 | 2,8 | 140 | 4 | 30 | 30 | 0,036 |
| EO010220000000* | 22 | 0,8 | 2,8 | 150 | 4 | 30 | 30 | 0,036 |
| EO010250000000 | 25 | 1 | 2,9 | 190 | 4 | 40 | 50 | 0,073 |
| EO010300000000 | 30 | 1 | 3 | 230 | 3,5 | 50 | 50 | 0,115 |
| EO010320000000 | 31,8 | 1 | 3,1 | 260 | 3,5 | 50 | 50 | 0,122 |
| EO010350000000 | 35 | 1 | 3,3 | 290 | 3,5 | 50 | 50 | 0,133 |
| EO010380000000 | 38,1 | 1 | 3,5 | 340 | 3 | 60 | 50 | 0,144 |
| EO010390000000* | 39 | 1 | 3,5 | 340 | 3 | 60 | 50 | 0,177 |
| EO010400000000 | 40 | 1 | 3,5 | 350 | 3 | 60 | 50 | 0,180 |
| EO010450000000 | 45 | 1 | 3,8 | 440 | 3 | 70 | 50 | 0,202 |
| EO010500000000 | 50 | 1 | 4,1 | 520 | 3 | 80 | 50 | 0,251 |
| EO010515000000* | 51,5 | 1 | 4,1 | 540 | 3 | 80 | 50 | 0,258 |
| EO010520000000 | 50,8 | 1 | 4,1 | 530 | 3 | 80 | 50 | 0,255 |
| EO010550000000* | 55 | 1 | 4,2 | 590 | 3 | 80 | 50 | 0,274 |
| EO010600000000 | 60 | 1 | 4,2 | 640 | 3 | 90 | 50 | 0,394 |
| EO010630000000 | 63,5 | 1 | 4,2 | 680 | 3 | 100 | 50 | 0,414 |
| EO010650000000 | 65 | 1 | 4,2 | 690 | 3 | 100 | 50 | 0,423 |
| EO010700000000 | 70 | 1,2 | 4,5 | 750 | 3 | 110 | 50 | 0,455 |
| EO010760000000 | 76,2 | 1,2 | 4,6 | 840 | 2,5 | 110 | 50 | 0,615 |
| EO010770000000* | 77,7 | 1,2 | 4,6 | 860 | 2,5 | 120 | 50 | 0,626 |
| EO010800000000 | 80 | 1,2 | 5,1 | 960 | 2,5 | 120 | 50 | 0,649 |
| EO010900000000* | 90 | 1,2 | 5,3 | 1140 | 2,5 | 140 | 30 | 0,435 |
| EO011000000000 | 100 | 1,2 | 5,8 | 1330 | 2,5 | 150 | 30 | 0,643 |
| EO011020000000 | 102 | 1,2 | 5,8 | 1350 | 2,5 | 150 | 30 | 0,654 |
| EO011035000000* | 103,5 | 1,2 | 5,8 | 1370 | 2,5 | 150 | 30 | 0,663 |
| EO011050000000* | 105 | 1,2 | 5,8 | 1390 | 2,5 | 160 | 30 | 0,672 |
| EO011100000000 | 110 | 1,3 | 5,9 | 1470 | 2,5 | 160 | 30 | 0,702 |
| EO011200000000 | 120 | 1,3 | 5,9 | 1600 | 2,5 | 180 | 30 | 0,759 |
| EO011270000000 | 127 | 1,3 | 6 | 1720 | 2,5 | 190 | 30 | 0,801 |
| EO011300000000* | 130 | 1,3 | 6 | 1760 | 2,5 | 190 | 30 | 0,818 |
| EO011400000000 | 140 | 1,3 | 6,1 | 1940 | 2 | 200 | 30 | 1,169 |
| EO011500000000 | 151,5 | 1,3 | 6,4 | 2110 | 2 | 220 | 20 | 1,262 |
| EO011520000000* | 152,4 | 1,3 | 6,4 | 2130 | 2 | 220 | 20 | 1,269 |
| EO011600000000* | 160 | 1,5 | 7 | 2330 | 1,5 | 230 | 20 | 1,336 |
| EO011800000000* | 180 | 1,5 | 7 | 2620 | 1,5 | 250 | 20 | 1,490 |
| EO012000000000 | 200 | 1,5 | 7,3 | 2900 | 1,5 | 280 | 20 | 1,648 |
| EO012030000000* | 203,2 | 1,5 | 7,3 | 2940 | 1,5 | 280 | 20 | 1,673 |
| EO012500000000* | 250 | 1,5 | 7,6 | 3800 | 1 | 330 | 10 | 1,358 |
| EO013000000000* | 300 | 1,5 | 7,8 | 4700 | 1 | 380 | 10 | 1,616 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

ES Tubo de PVC-P de color azul, con espiral de refuerzo en PVC rígido antichoque. Interno perfectamente liso. Externo corrugado. Muy flexible sobretodo a bajas temperaturas, alta resistencia mecanica. Resistente a los agentes atmosféricos y a numerosas substancias químicas. Versión antiestática con hilo de cobre (cód. EE 02) disponible según pedido.

• Ventilación y acondicionamiento industrial: aspiración de aire, humos y gases; aspiradores domésticos.

EN Light blue PVC-P spiral hose, reinforced with an anti-shock rigid PVC spiral. Perfectly smooth inner surface, corrugated outside. Flexible mainly at low temperatures, high mechanical strength. Resistant to weathering and many chemicals. AS version with copper wire is available on request (Cod. EE 02).

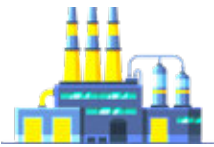
• Used wherever a very flexible hose with vacuum resistance is required; for domestic vacuum cleaners, ventilation systems, air conditioning and for smoke and gas extraction in industry.

CÓD. EE
Ø mm 16-250

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose



FICHA TÉCNICA · TECHNICAL DATA

1,2-2,8

+50°C
-25°C

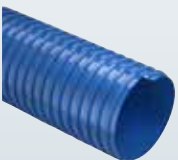
ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO L (cód. EL) p.41



EOLO (cód. EO) p.42



EOLO SL (cód. ES) p.40

| CÓDIGO CODE | Ø INT. mm/inch | MIN ESP. MIN WALL TH. mm | MAX ESP. MAX WALL TH. mm | PESO WEIGHT g/m | VACIO VACUUM m H ₂ O | R. CURVATURA BENDING mm | LG. ROLLO COIL LGTH. m | VOL. VOL. m ³ |
|-----------------|-------------------|--------------------------------|--------------------------------|-----------------------|---------------------------------------|-------------------------------|------------------------------|--------------------------------|
| EE010160000000* | 16 | 1,2 | 2,6 | 130 | 6 | 65 | 50 | 0,037 |
| EE010190000000* | 19,1 | 1,2 | 2,6 | 150 | 6 | 65 | 50 | 0,049 |
| EE010200000000* | 20 | 1,2 | 2,6 | 150 | 6 | 80 | 50 | 0,051 |
| EE010250000000* | 25 | 1,2 | 2,6 | 190 | 6 | 100 | 50 | 0,072 |
| EE010300000000* | 30 | 1,4 | 3 | 270 | 6 | 110 | 50 | 0,115 |
| EE010320000000* | 31,8 | 1,4 | 3,1 | 300 | 6 | 120 | 50 | 0,122 |
| EE010350000000* | 35 | 1,5 | 3,2 | 330 | 5 | 130 | 50 | 0,132 |
| EE010380000000* | 38,1 | 1,5 | 3,2 | 360 | 5 | 135 | 50 | 0,142 |
| EE010390000000* | 39 | 1,5 | 3,2 | 370 | 5 | 140 | 50 | 0,145 |
| EE010400000000* | 40 | 1,5 | 3,2 | 380 | 5 | 160 | 50 | 0,178 |
| EE010450000000* | 45 | 1,6 | 3,4 | 460 | 5 | 175 | 50 | 0,199 |
| EE010500000000* | 50 | 1,6 | 3,9 | 570 | 5 | 175 | 50 | 0,250 |
| EE010515000000* | 51,5 | 1,6 | 3,9 | 580 | 5 | 180 | 50 | 0,256 |
| EE010520000000* | 50,8 | 1,6 | 3,9 | 580 | 5 | 175 | 50 | 0,253 |
| EE010550000000* | 55 | 1,7 | 4 | 650 | 5 | 190 | 50 | 0,272 |
| EE010570000000* | 57 | 1,7 | 4 | 680 | 5 | 200 | 50 | 0,374 |
| EE010600000000* | 60 | 2 | 4,6 | 880 | 5 | 220 | 50 | 0,399 |
| EE010630000000* | 63,5 | 2 | 4,6 | 930 | 5 | 230 | 50 | 0,419 |
| EE010650000000* | 65 | 2 | 4,6 | 950 | 5 | 250 | 50 | 0,427 |
| EE010700000000* | 70 | 2 | 5,2 | 1070 | 5 | 270 | 50 | 0,463 |
| EE010760000000* | 76,2 | 2 | 5,2 | 1160 | 5 | 290 | 50 | 0,624 |
| EE010800000000* | 80 | 2 | 5,4 | 1220 | 5 | 350 | 30 | 0,523 |
| EE010900000000* | 90 | 2 | 5,4 | 1360 | 4,5 | 400 | 30 | 0,581 |
| EE011000000000* | 100 | 2,1 | 5,6 | 1520 | 4,5 | 400 | 30 | 0,641 |
| EE011020000000* | 102 | 2,1 | 5,6 | 1550 | 4,5 | 430 | 30 | 0,652 |
| EE011100000000* | 110 | 2,1 | 6,2 | 1810 | 4,5 | 470 | 30 | 0,705 |
| EE011200000000* | 120 | 2,1 | 6,3 | 2000 | 4,5 | 500 | 30 | 1,018 |
| EE011270000000* | 127 | 2,2 | 6,5 | 2220 | 4,5 | 510 | 30 | 1,075 |
| EE011300000000* | 130 | 2,3 | 6,8 | 2430 | 4 | 560 | 30 | 1,103 |
| EE011400000000* | 140 | 2,3 | 7 | 2700 | 4 | 600 | 20 | 1,183 |
| EE011500000000* | 151,5 | 2,5 | 7,3 | 3010 | 4 | 600 | 20 | 1,276 |
| EE011520000000* | 152,4 | 2,5 | 7,4 | 3080 | 4 | 650 | 20 | 1,284 |
| EE011600000000* | 160 | 2,7 | 8 | 3320 | 3,5 | 730 | 20 | 1,408 |
| EE011800000000* | 180 | 2,7 | 8 | 3720 | 3,5 | 800 | 20 | 1,568 |
| EE012000000000* | 200 | 2,7 | 8 | 3960 | 3,5 | 800 | 20 | 1,728 |
| EE012030000000* | 203,2 | 2,7 | 8 | 4020 | 3 | 1250 | 10 | 1,754 |
| EE012500000000* | 250 | 2,8 | 8,4 | 5260 | 7 | 1500 | 10 | 2,134 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

EOLO TERMORESISTENTE

Cod. TR 01



HASTA 100°C - UP TO +100°C

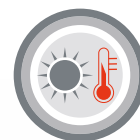




EOLO TERMORESISTENTE
EOLO HT 180 °C
VULCANO® TPR-A
EOLO CLIP HYPALON
EOLO HT 400°C
EOLO HT 450°C
SILDUCT 2S

ALTAS TEMPERATURAS HIGH TEMPERATURES

EOLO TERMORESISTENTE



ES Tubo de color gris, realizado con tejido de poliéster recubierto de PVC autoextinguible. Espiral de refuerzo de acero incorporada entre los dos extractos. Auto-extinguible según UL 94 V0 y NFP 92 503 (M2). Compresibilidad axial 8:1.

• Instalaciones de acondicionamiento civil y naval, ventilación, aspiración de humos y gases.

EN Grey flexible hose made of flame-resistant PVC coated polyester fabric, reinforced with a steel spiral embedded between the two layers. The material is flame retardant, according to UL 94 V(TM)-0 and to NFP 92 503 (M2 grade). Axial compressibility 8:1.

• Civil and naval air conditioning systems, ventilation, fumes, vapours, dust and gas extraction.

CÓD. TR
Ø mm 40-505



Espiral de acero
steel spiral

Tejido de poliéster recubierto de PVC autoextinguible
Flame resistant PVC coated polyester fabric

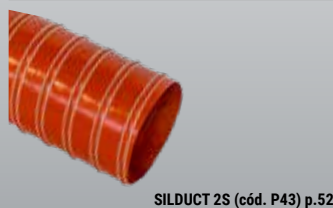
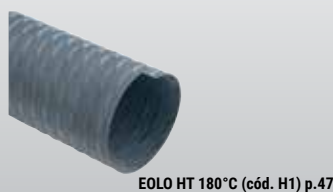


| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | PESO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--------------------------------|----------------|--------|--------|--------------|------------|----------------|
| | | CODE | Ø INT. | WEIGHT | BENDING | COIL LGTH. | VOL. |
| | | | mm | g/m | mm | m | m ³ |
| | en stock available on stock | TR01040000000 | 40 | 115 | 20 | 10 | 0,002 |
| | | TR01045000000* | 45 | 125 | 23 | 10 | 0,002 |
| | | TR01051000000 | 51 | 135 | 26 | 10 | 0,003 |
| | | TR01055000000* | 55 | 145 | 28 | 10 | 0,003 |
| | | TR01060000000 | 60 | 160 | 30 | 10 | 0,004 |
| | | TR01063000000 | 63 | 165 | 32 | 10 | 0,004 |
| | | TR01065000000* | 65 | 170 | 33 | 10 | 0,005 |
| | | TR01070000000 | 70 | 165 | 35 | 10 | 0,005 |
| | | TR01073000000* | 73 | 175 | 37 | 10 | 0,006 |
| | | TR01076000000 | 76 | 180 | 38 | 10 | 0,006 |
| | | TR01080000000 | 80 | 190 | 40 | 10 | 0,007 |
| | | TR01082000000* | 82 | 195 | 41 | 10 | 0,007 |
| | | TR01090000000 | 90 | 210 | 45 | 10 | 0,009 |
| | | TR01102000000 | 102 | 275 | 51 | 10 | 0,011 |
| | | TR01107000000* | 107 | 290 | 54 | 10 | 0,012 |
| | | TR01110000000 | 110 | 300 | 55 | 10 | 0,013 |
| | | TR01115000000 | 115 | 310 | 58 | 10 | 0,014 |
| | | TR01120000000 | 120 | 325 | 60 | 10 | 0,015 |
| | | TR01125000000* | 125 | 340 | 63 | 10 | 0,016 |
| | | TR01127000000 | 127 | 345 | 64 | 10 | 0,017 |
| | | TR01130000000 | 130 | 350 | 65 | 10 | 0,018 |
| | | TR01140000000 | 140 | 380 | 70 | 10 | 0,021 |
| | | TR01152000000 | 152 | 410 | 76 | 10 | 0,024 |
| | | TR01160000000 | 160 | 420 | 80 | 10 | 0,027 |
| | | TR01163000000* | 163 | 430 | 82 | 10 | 0,028 |
| | | TR01170000000* | 170 | 445 | 85 | 10 | 0,030 |
| | | TR01180000000 | 180 | 475 | 90 | 10 | 0,034 |
| | | TR01200000000* | 200 | 525 | 100 | 10 | 0,041 |
| | | TR01203000000 | 203 | 535 | 102 | 10 | 0,043 |
| | | TR01228000000 | 228 | 600 | 114 | 10 | 0,054 |
| | | TR01230000000* | 230 | 600 | 115 | 10 | 0,055 |
| | | TR01254000000 | 254 | 840 | 127 | 10 | 0,067 |
| | | TR01279000000* | 279 | 920 | 140 | 10 | 0,080 |
| | | TR01305000000 | 305 | 1005 | 153 | 10 | 0,124 |
| | | TR01310000000* | 310 | 1020 | 155 | 10 | 0,099 |
| | | TR01315000000* | 315 | 1040 | 158 | 10 | 0,102 |
| | | TR01330000000* | 330 | 1090 | 165 | 10 | 0,112 |
| | | TR01356000000 | 356 | 1175 | 178 | 10 | 0,130 |
| | | TR01406000000 | 406 | 1335 | 203 | 10 | 0,168 |
| | | TR01455000000* | 455 | 1875 | 228 | 10 | 0,211 |
| | | TR01500000000* | 500 | 2055 | 250 | 10 | 0,255 |
| | | TR01505000000* | 505 | 2080 | 253 | 10 | 0,260 |

+100°C picos
peaks
+120°C
-20°C



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% umidity.

EOLO HT 180°C



ES

Tubo de color gris realizado con tejido de poliéster recubierto de TPU autoextinguible. Espiral de refuerzo en acero incorporada entre los dos extractos. Auto-extinguible según UL 94 V0, NFP 92503 (M1) y NF EN 2310 /FAR25-853-a). Exento de silicona, plastificantes y ftalatos.

• Ventilación industrial, aspiración de gases, humos de soldadura, usado en la industria mecánica, automovilística y plástica.

EN

Grey duct made with flame resistant TPU coated polyester fabric and reinforced by steel spiral welded between the two layers. The material is flame retardant V(TM)-0 according to UL 94, grade M1 according to NF P 92-503 and in compliance with NF EN 2310, grade FAR25-853-a. SILICON FREE, it is also free from phthalates and softeners.

• Civil and naval conditioning plants, ventilation systems, suction of fumes, vapours, powders, gas.



CÓD. H1

Ø mm 40-505

Espiral de acero
Steel spiral



Tejido de poliéster recubierto de TPU autoextinguible
Flame resistant TPU coated polyester fabric

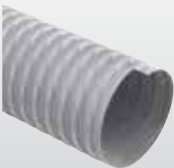
FICHA TÉCNICA · TECHNICAL DATA

+180°C
-40°C

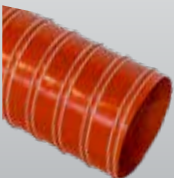


F2 W2 p.122
Abrazaderas doble puente W2 / Double bridge W2

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO TERMORESISTENTE (cód. TR) p.46



SILDUCT 2S (cód. P43) p.52

| CÓDIGO CODE | Ø INT. Ø INT. | PESO WEIGHT | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. |
|----------------|------------------|----------------|-------------------------|-------------------------|----------------|
| | mm | g/m | mm | m | m ³ |
| H101040000000* | 40 | 125 | 20 | 10 | 0,002 |
| H101045000000* | 45 | 140 | 23 | 10 | 0,002 |
| H101051000000* | 51 | 150 | 26 | 10 | 0,003 |
| H101055000000* | 55 | 165 | 28 | 10 | 0,003 |
| H101060000000* | 60 | 175 | 30 | 10 | 0,004 |
| H101063000000* | 63 | 185 | 32 | 10 | 0,004 |
| H101065000000* | 65 | 190 | 33 | 10 | 0,005 |
| H101070000000* | 70 | 185 | 35 | 10 | 0,005 |
| H101076000000* | 76 | 200 | 38 | 10 | 0,006 |
| H101080000000* | 80 | 210 | 40 | 10 | 0,007 |
| H101082000000* | 82 | 215 | 41 | 10 | 0,007 |
| H101090000000* | 90 | 240 | 45 | 10 | 0,009 |
| H101102000000* | 102 | 310 | 51 | 10 | 0,011 |
| H101107000000* | 107 | 325 | 54 | 10 | 0,012 |
| H101110000000* | 110 | 330 | 55 | 10 | 0,013 |
| H101115000000* | 115 | 345 | 58 | 10 | 0,014 |
| H101120000000* | 120 | 360 | 60 | 10 | 0,015 |
| H101127000000* | 127 | 385 | 64 | 10 | 0,017 |
| H101130000000* | 130 | 390 | 65 | 10 | 0,018 |
| H101140000000* | 140 | 420 | 70 | 10 | 0,021 |
| H101152000000* | 152 | 460 | 76 | 10 | 0,024 |
| H101160000000* | 160 | 470 | 80 | 10 | 0,027 |
| H101163000000* | 163 | 475 | 82 | 10 | 0,028 |
| H101180000000* | 180 | 525 | 90 | 10 | 0,034 |
| H101203000000* | 203 | 595 | 102 | 10 | 0,043 |
| H101220000000* | 220 | 640 | 110 | 10 | 0,050 |
| H101228000000* | 228 | 665 | 114 | 10 | 0,054 |
| H101254000000* | 254 | 910 | 127 | 10 | 0,067 |
| H101279000000* | 279 | 1000 | 140 | 10 | 0,080 |
| H101305000000* | 305 | 1095 | 153 | 10 | 0,124 |
| H101315000000* | 315 | 1130 | 158 | 10 | 0,102 |
| H101330000000* | 330 | 1180 | 165 | 10 | 0,112 |
| H101356000000* | 356 | 1275 | 178 | 10 | 0,130 |
| H101406000000* | 406 | 1455 | 203 | 10 | 0,236 |
| H101500000000* | 500 | 2015 | 250 | 10 | 0,357 |
| H101505000000* | 505 | 2035 | 253 | 10 | 0,364 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

VULCANO® TPR-A



ES Tubo de goma termoplástica TPV de color negro y raya verde, con espiral de refuerzo de acero incorporada entre los 2 estrados. Ligero y flexible, presenta una alta resistencia a las altas temperaturas, a las substancias químicas y a la abrasión. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

- Industria química y astilleros navales: aspiración de aire y de humos a temperaturas elevadas.

EN Black hose with green stripe made in thermoplastic rubber TPV, with a steel spiral reinforcement embedded between the two layers. Light and flexible, it is extremely resistant to high temperatures, chemicals and abrasion. It can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

- Suction of hot air and fumes in chemical plants and shipyards.

CÓD. VT

Ø mm 32-406



Espirales de acero
steel spiral

Tubo en goma termoplástica TPV
TPV thermoplastic rubber hose



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--------|--------|-----------------|--------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | MIN. WALL THICK | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| VT010320000000* | 32 | 0,4 | 165 | 2 | 30 | 20 | 0,06 | |
| VT010350000000* | 35 | 0,4 | 175 | 2 | 30 | 20 | 0,06 | |
| VT010380000000 | 38 | 0,4 | 185 | 2 | 30 | 20 | 0,06 | |
| VT010400000000 | 40 | 0,4 | 195 | 2 | 32 | 20 | 0,07 | |
| VT010450000000 | 45 | 0,4 | 220 | 2 | 36 | 20 | 0,10 | |
| VT010510000000 | 51 | 0,4 | 245t | 2 | 40 | 20 | 0,11 | |
| VT010550000000* | 55 | 0,4 | 265 | 1,7 | 50 | 20 | 0,12 | |
| VT010600000000 | 60 | 0,4 | 285 | 1,7 | 50 | 20 | 0,13 | |
| VT010630000000 | 63 | 0,4 | 300 | 1,7 | 55 | 20 | 0,14 | |
| VT010650000000* | 65 | 0,4 | 310 | 1,7 | 56 | 20 | 0,19 | |
| VT010700000000 | 70 | 0,5 | 465 | 1,7 | 60 | 20 | 0,20 | |
| VT010760000000 | 76 | 0,5 | 505 | 1,7 | 65 | 20 | 0,22 | |
| VT010800000000 | 80 | 0,5 | 530 | 1,6 | 65 | 20 | 0,23 | |
| VT010890000000* | 89 | 0,5 | 585 | 1,6 | 75 | 20 | 0,28 | |
| VT010900000000 | 90 | 0,5 | 590 | 1,6 | 75 | 20 | 0,28 | |
| VT011000000000 | 100 | 0,6 | 645 | 1,3 | 85 | 15 | 0,31 | |
| VT011020000000 | 102 | 0,6 | 660 | 1,3 | 85 | 15 | 0,32 | |
| VT011100000000 | 110 | 0,6 | 710 | 1,2 | 90 | 15 | 0,51 | |
| VT011150000000* | 115 | 0,6 | 740 | 1 | 100 | 15 | 0,53 | |
| VT011200000000 | 120 | 0,6 | 770 | 1 | 100 | 15 | 0,55 | |
| VT011270000000 | 127 | 0,65 | 855 | 1 | 105 | 15 | 0,59 | |
| VT011300000000 | 130 | 0,65 | 870 | 0,8 | 105 | 15 | 0,60 | |
| VT011400000000 | 140 | 0,65 | 935 | 0,8 | 115 | 15 | 0,76 | |
| VT011500000000 | 150 | 0,65 | 1000 | 0,8 | 125 | 15 | 0,81 | |
| VT011520000000 | 152 | 0,65 | 1015 | 0,8 | 125 | 15 | 0,82 | |
| VT011600000000 | 160 | 0,65 | 1070 | 0,7 | 130 | 15 | 0,87 | |
| VT011800000000 | 180 | 0,65 | 1350 | 0,5 | 150 | 15 | 0,98 | |
| VT012030000000 | 203 | 0,65 | 1515 | 0,4 | 165 | 15 | 1,10 | |
| VT012200000000* | 220 | 0,65 | 1640 | 0,4 | 185 | 10 | 1,19 | |
| VT012280000000* | 228 | 0,65 | 1695 | 0,4 | 185 | 10 | 1,23 | |
| VT012540000000 | 254 | 0,65 | 1920 | 0,4 | 210 | 10 | 1,36 | |
| VT012650000000* | 265 | 0,65 | 2045 | 0,4 | 220 | 10 | 1,42 | |
| VT012790000000* | 279 | 0,65 | 2115 | 0,4 | 230 | 10 | 1,50 | |
| VT013050000000 | 305 | 0,65 | 2335 | 0,3 | 250 | 10 | 1,63 | |
| VT013560000000* | 356 | 0,65 | 2715 | 0,3 | 300 | 10 | 2,96 | |
| VT014060000000* | 406 | 0,65 | 3170 | 0,3 | 350 | 10 | 3,36 | |

JP
en stock
available on stock

0,4-0,65
+125°C
-40°C

F2 W2 p.122
Abrazaderas doble puente W2 / Double bridge W2

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

EOLO CLIP HYPALON



(ES) **Tubo de color gris, realizado con tejido de poliéster recubierto de Hypalon.** Espiral de refuerzo de acero galvanizado, incorporada entre los dos extractos. Compresibilidad axial 4:1. Tubo muy flexible, resistente a vibraciones, aceites minerales, sustancias alcalinas, ácidos y a muchos productos químicos. Resistente al aplastamiento. Difícilmente inflamable.

- Industria química: aspiración de humos y vapores hasta 170°C. Adecuado para su instalación en espacios reducidos donde se requieran radios de curvatura especialmente estrechos.

(EN) **Dark grey Hypalon® coated PES-fabric with external galvanized steel spiral.**

Compressible 4:1. Very flexible, resistant to vibrations, mineral oils, chemicals (alkali and acids) and to several chemicals. Crush proof. Hardly inflammable.

- Suction and delivery of chemical vapours and fumes up to 170°C. Suitable to be installed in narrow spaces and where special bending radius is required.

CÓD. EY

Ø mm 50-900



Tejido de poliéster recubierto de Hypalon
Hypalon coated PES- fabric

Espiral de acero
Steel spiral



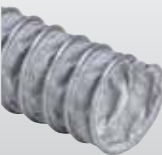
| FICHA TÉCNICA - TECHNICAL DATA | CÓDIGO | Ø INT. | PESO | P.T. | VACIO | R. CURVATURA | LG. ROLLO |
|--------------------------------|-----------------|--------|--------|------|--------------------|--------------|------------|
| | CODE | Ø INT. | WEIGHT | W.P. | VACUUM | BENDING | COIL LGTH. |
| | | mm | g/m | Bar | m H ₂ O | mm | m |
| | EY010500000000* | 50 | 400 | 0,90 | 4,08 | 30 | 6 |
| | EY010600000000* | 60 | 500 | 0,78 | 2,83 | 36 | 6 |
| | EY010650000000* | 65 | 500 | 0,68 | 2,42 | 39 | 6 |
| | EY010700000000* | 70 | 500 | 0,67 | 2,08 | 42 | 6 |
| | EY010750000000* | 75 | 600 | 0,62 | 1,82 | 45 | 6 |
| | EY010800000000* | 80 | 600 | 0,61 | 1,59 | 48 | 6 |
| | EY010900000000* | 90 | 600 | 0,56 | 1,25 | 54 | 6 |
| | EY011000000000* | 100 | 600 | 0,51 | 1,02 | 60 | 6 |
| | EY011100000000* | 110 | 700 | 0,48 | 0,85 | 66 | 6 |
| | EY011200000000* | 120 | 700 | 0,36 | 0,71 | 72 | 6 |
| | EY011250000000* | 125 | 800 | 0,33 | 0,65 | 75 | 6 |
| | EY011300000000* | 130 | 800 | 0,28 | 0,60 | 78 | 6 |
| | EY011400000000* | 140 | 800 | 0,25 | 0,52 | 84 | 6 |
| | EY011500000000* | 150 | 900 | 0,22 | 0,45 | 90 | 6 |
| | EY011600000000* | 160 | 900 | 0,21 | 0,40 | 96 | 6 |
| | EY011700000000* | 170 | 900 | 0,19 | 0,36 | 102 | 6 |
| | EY011750000000* | 175 | 1000 | 0,19 | 0,34 | 105 | 6 |
| | EY011800000000* | 180 | 1000 | 0,17 | 0,32 | 108 | 6 |
| | EY012000000000* | 200 | 1200 | 0,15 | 0,25 | 120 | 6 |
| | EY012150000000* | 215 | 1300 | 0,13 | 0,22 | 129 | 6 |
| | EY012250000000* | 225 | 1400 | 0,12 | 0,20 | 135 | 6 |
| | EY012500000000* | 250 | 1600 | 0,1 | 0,16 | 175 | 6 |
| | EY012750000000* | 275 | 1900 | 0,08 | 0,13 | 193 | 6 |
| | EY013000000000* | 300 | 2100 | 0,07 | 0,11 | 210 | 6 |
| | EY013150000000* | 315 | 2100 | 0,06 | 0,10 | 221 | 6 |
| | EY013250000000* | 325 | 2200 | 0,06 | 0,10 | 228 | 6 |
| | EY013500000000* | 350 | 2500 | 0,06 | 0,08 | 245 | 6 |
| | EY013750000000* | 375 | 2900 | 0,05 | 0,07 | 263 | 6 |
| | EY014000000000* | 400 | 3100 | 0,05 | 0,06 | 280 | 6 |
| | EY014500000000* | 450 | 3600 | 0,05 | 0,05 | 360 | 6 |
| | EY015000000000* | 500 | 4100 | 0,04 | 0,04 | 400 | 6 |
| | EY016000000000* | 600 | 5100 | 0,04 | 0,03 | 480 | 6 |
| | EY017000000000* | 700 | 6000 | 0,03 | 0,02 | 560 | 6 |
| | EY018000000000* | 800 | 6900 | 0,02 | 0,02 | 640 | 6 |
| | EY019000000000* | 900 | 7800 | 0,02 | 0,01 | 720 | 6 |

+170°C picos
peaks
-40°C +190°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



EOLO HT 400°C (cód. H4) p.50



EOLO HT 450 °C (cód. H5) p.51

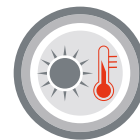
*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

EOLO HT 400°C



ES Tubo de color gris en tejido de fibra de vidrio reforzado con acero. "Espiral de clip" de acero galvanizado. Resistente a altas temperaturas hasta 400°C. Difícilmente inflamable.

Buena compresibilidad axial 3:1.

• Aspiración de gases, vapores, humos de soldadura, gases de escape de hornos, polvos y fibras.

EN Special coated glass fabric duct reinforced with stainless steel wire Galvanized steel clamp profile. Resistant to high temperatures up to 400°C. Flexible and hardly inflammable.

Good axial compressibility 3:1.

• Extraction of vapors and exhaust smokes, welding gasses, furnace exhaust, dust and fibres.

CÓD. H4

Ø mm 50-900



Tejido de fibra de vidrio reforzado con acero
Coated glass fabric duct

Espiral de acero galvanizado
Galvanized steel spiral



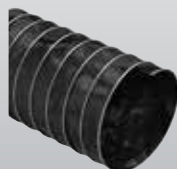
FICHA TÉCNICA · TECHNICAL DATA



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO HT 450 °C (cód. H5) p.51



EOLO CLIP HYPALON (cód. EY) p.49

| CÓDIGO CODE | Ø INT. Ø INT. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. |
|----------------|------------------|----------------|--------------------|-------------------------|-------------------------|
| | mm | g/m | m H ₂ O | mm | m |
| H401050000000* | 50 | 400 | 3,26 | 30 | 6 |
| H401060000000* | 60 | 500 | 2,24 | 36 | 6 |
| H401065000000* | 65 | 500 | 1,94 | 39 | 6 |
| H401070000000* | 70 | 500 | 1,63 | 42 | 6 |
| H401075000000* | 75 | 600 | 1,43 | 45 | 6 |
| H401080000000* | 80 | 600 | 1,27 | 48 | 6 |
| H401090000000* | 90 | 600 | 1,02 | 54 | 6 |
| H401100000000* | 100 | 600 | 0,82 | 60 | 6 |
| H401110000000* | 110 | 700 | 0,67 | 66 | 6 |
| H401120000000* | 120 | 700 | 0,57 | 72 | 6 |
| H401125000000* | 125 | 800 | 0,51 | 75 | 6 |
| H401130000000* | 130 | 800 | 0,48 | 78 | 6 |
| H401140000000* | 140 | 800 | 0,42 | 84 | 6 |
| H401150000000* | 150 | 900 | 0,37 | 90 | 6 |
| H401160000000* | 160 | 900 | 0,32 | 96 | 6 |
| H401170000000* | 170 | 900 | 0,29 | 102 | 6 |
| H401175000000* | 175 | 1000 | 0,27 | 105 | 6 |
| H401180000000* | 180 | 1000 | 0,25 | 108 | 6 |
| H401200000000* | 200 | 1200 | 0,20 | 120 | 6 |
| H401215000000* | 215 | 1300 | 0,18 | 129 | 6 |
| H401225000000* | 225 | 1400 | 0,16 | 135 | 6 |
| H401250000000* | 250 | 1600 | 0,13 | 175 | 6 |
| H401275000000* | 275 | 1900 | 0,11 | 193 | 6 |
| H401300000000* | 300 | 2100 | 0,09 | 210 | 6 |
| H401315000000* | 315 | 2100 | 0,08 | 221 | 6 |
| H401325000000* | 325 | 2200 | 0,08 | 228 | 6 |
| H401350000000* | 350 | 2500 | 0,07 | 245 | 6 |
| H401375000000* | 375 | 2900 | 0,06 | 263 | 6 |
| H401400000000* | 400 | 3100 | 0,05 | 280 | 6 |
| H401450000000* | 450 | 3600 | 0,04 | 360 | 6 |
| H401500000000* | 500 | 4100 | 0,03 | 400 | 6 |
| H401600000000* | 600 | 5100 | 0,02 | 480 | 6 |
| H401700000000* | 700 | 6000 | 0,02 | 560 | 6 |
| H401800000000* | 800 | 6900 | 0,01 | 640 | 6 |
| H401900000000* | 900 | 7800 | 0,01 | 720 | 6 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

EOLO HT 450°C



(ES) Tubo de color gris con doble extracto, revestimiento en tejido de fibra de vidrio recubierto de silicona, interior de vidrio. "Espiral de clip" en acero galvanizado. Resistente a altas temperaturas hasta 550 °C.

• Difícilmente inflamable. Buena compresibilidad axial hasta 6:1. Instalaciones de extracción de humos de soldadura, vapores, gases de escape de hornos, polvos y fibras, aviación e industria de defensa

(EN) 2 ply, special high temperature silicone coated glass fabric outside, raw glass inside, reinforced with an external galvanized steel "Clamp profile". Resistant to high temperature peaks up to 550°C. Hardly inflammable. Good axial compressibility 6:1.

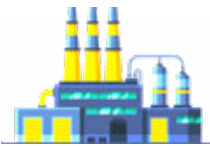
• Suction and blowing of smokes, vapours, welding gasses, furnace exhaust, dust and fibres; iron and steel production; heating plants; aerospace and defence industry

CÓD. H5
Ø mm 50-900



Doble capa de tejido de fibra de vidrio recubierto de silicona
2 ply-silicone coated glass fabric

Espiral de acero galvanizado
Galvanized steel spiral



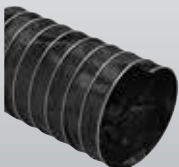
FICHA TÉCNICA · TECHNICAL DATA

+450°C
-60°C

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO HT 400 °C (cód. H4) p.50



EOLO CLIP HYPALON (cód. EV) p.49

| CÓDIGO CODE | Ø INT. Ø INT. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. |
|----------------|------------------|----------------|--------------------|-------------------------|-------------------------|
| | mm | g/m | m H ₂ O | mm | m |
| H501050000000* | 50 | 600 | 3,26 | 30 | 6 |
| H501060000000* | 60 | 700 | 2,24 | 36 | 6 |
| H501065000000* | 65 | 800 | 1,94 | 39 | 6 |
| H501070000000* | 70 | 900 | 1,63 | 42 | 6 |
| H501075000000* | 75 | 1000 | 1,43 | 45 | 6 |
| H501080000000* | 80 | 1000 | 1,27 | 48 | 6 |
| H501090000000* | 90 | 1200 | 1,02 | 54 | 6 |
| H501100000000* | 100 | 1300 | 0,82 | 60 | 6 |
| H501110000000* | 110 | 1300 | 0,67 | 66 | 6 |
| H501120000000* | 120 | 1400 | 0,57 | 72 | 6 |
| H501125000000* | 125 | 1400 | 0,51 | 75 | 6 |
| H501130000000* | 130 | 1600 | 0,48 | 78 | 6 |
| H501140000000* | 140 | 1600 | 0,42 | 84 | 6 |
| H501150000000* | 150 | 1800 | 0,37 | 90 | 6 |
| H501160000000* | 160 | 1800 | 0,32 | 96 | 6 |
| H501170000000* | 170 | 2000 | 0,29 | 102 | 6 |
| H501175000000* | 175 | 2100 | 0,27 | 105 | 6 |
| H501180000000* | 180 | 2100 | 0,25 | 108 | 6 |
| H501200000000* | 200 | 2300 | 0,20 | 120 | 6 |
| H501215000000* | 215 | 2400 | 0,18 | 129 | 6 |
| H501225000000* | 225 | 2400 | 0,16 | 135 | 6 |
| H501250000000* | 250 | 2600 | 0,13 | 175 | 6 |
| H501275000000* | 275 | 2700 | 0,11 | 193 | 6 |
| H501300000000* | 300 | 2750 | 0,09 | 210 | 6 |
| H501315000000* | 315 | 2800 | 0,08 | 221 | 6 |
| H501325000000* | 325 | 2900 | 0,08 | 228 | 6 |
| H501350000000* | 350 | 3050 | 0,07 | 245 | 6 |
| H501375000000* | 375 | 3200 | 0,06 | 263 | 6 |
| H501400000000* | 400 | 3400 | 0,05 | 280 | 6 |
| H501450000000* | 450 | 4000 | 0,04 | 360 | 6 |
| H501500000000* | 500 | 4500 | 0,03 | 400 | 6 |
| H501600000000* | 600 | 5600 | 0,02 | 480 | 6 |
| H501700000000* | 700 | 6600 | 0,02 | 560 | 6 |
| H501800000000* | 800 | 7600 | 0,01 | 640 | 6 |
| H501900000000* | 900 | 8600 | 0,01 | 720 | 6 |

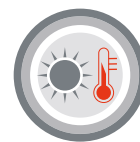
*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

SILDUCT 2S



IT Tubo flexible de color rojo, realizado con un doble extracto de tejido de fibra de vidrio recubierto de silicona; espiral incorporada de hilo de acero armónico y doble cordón externo de fibra de vidrio.

• Aspiración y ventilación industrial. Aspiración de gases y humos de soldadura. Usado en la industria mecánica, automovilística y plástica.

EN Red flexible hose made of two plies of silicone coated glass fabric, with an embedded bronze plated steel wire helix. Double outer glass cord.

• Extraction of exhaust gas and welding fumes; industrial ventilation, automotive and plastic industries.

CÓD. P43
Ø mm 13-305



Doble cordón de fibra de vidrio
double outer glass cord

Espiral de acero galvanizado
Galvanized steel spiral

Doble capa de tejido de fibra de vidrio recubierto de silicona
2 ply-silicone coated glass fabric



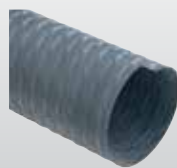
FICHA TÉCNICA · TECHNICAL DATA

+250°C picos
peaks
+310°C
-70°C

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO TERMORESISTENTE (cód. TR) p.46



EOLO HT 180°C (cód. H1) p.47

| CÓDIGO | Ø INT. | PESO | VACIO | R. CURVATURA | LG. ROLLO |
|----------------|--------|--------|--------------------|--------------|------------|
| CODE | Ø INT. | WEIGHT | VACUUM | BENDING | COIL LGTH. |
| | mm | g/m | m H ₂ O | mm | m |
| P435013000000* | 13 | 160 | 6,53 | 15 | 4 |
| P435019000000* | 19 | 190 | 6,53 | 15 | 4 |
| P435026000000* | 26 | 220 | 6,53 | 15 | 4 |
| P435030000000* | 30 | 250 | 6,53 | 15 | 4 |
| P435032000000* | 32 | 260 | 6,53 | 16 | 4 |
| P435038000000* | 38 | 310 | 6,02 | 18 | 4 |
| P435041000000* | 41 | 320 | 6,02 | 19 | 4 |
| P435042000000* | 42 | 320 | 6,02 | 19 | 4 |
| P435044000000* | 44 | 340 | 5,61 | 21 | 4 |
| P435045000000* | 45 | 340 | 5,61 | 21 | 4 |
| P435051000000* | 51 | 360 | 5,20 | 24 | 4 |
| P435055000000* | 55 | 420 | 4,89 | 27 | 4 |
| P435057000000* | 57 | 430 | 4,89 | 28 | 4 |
| P435060000000* | 60 | 470 | 4,79 | 31 | 4 |
| P435063000000* | 63 | 490 | 4,79 | 31 | 4 |
| P435064000000* | 64 | 490 | 4,79 | 31 | 4 |
| P435065000000* | 65 | 500 | 4,79 | 31 | 4 |
| P435070000000* | 70 | 530 | 4,38 | 35 | 4 |
| P435076000000* | 76 | 580 | 4,28 | 38 | 4 |
| P435080000000* | 80 | 620 | 4,18 | 40 | 4 |
| P435083000000* | 83 | 640 | 4,08 | 42 | 4 |
| P435090000000* | 90 | 690 | 3,98 | 44 | 4 |
| P435095000000* | 95 | 730 | 3,67 | 48 | 4 |
| P435102000000* | 102 | 770 | 3,47 | 52 | 4 |
| P435108000000* | 108 | 830 | 3,06 | 55 | 4 |
| P435110000000* | 110 | 850 | 2,96 | 57 | 4 |
| P435114000000* | 114 | 890 | 2,86 | 57 | 4 |
| P435120000000* | 120 | 940 | 2,86 | 61 | 4 |
| P435127000000* | 127 | 1000 | 2,55 | 64 | 4 |
| P435130000000* | 130 | 1020 | 2,35 | 65 | 4 |
| P435140000000* | 140 | 1110 | 1,94 | 70 | 4 |
| P435152000000* | 152 | 1200 | 1,73 | 75 | 4 |
| P435160000000* | 160 | 1280 | 1,53 | 80 | 4 |
| P435165000000* | 165 | 1320 | 1,43 | 83 | 4 |
| P435180000000* | 180 | 1480 | 1,22 | 90 | 4 |
| P435203000000* | 203 | 1650 | 0,92 | 101 | 4 |
| P435229000000* | 229 | 1900 | 0,82 | 125 | 4 |
| P435254000000* | 254 | 2140 | 0,71 | 150 | 4 |
| P435305000000* | 305 | 2580 | 0,41 | 210 | 4 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.



VULCANO® AF PLUS
VULCANO® 09 AF
VULCANO® PVC AF
EOLO PU AF
EOLO PVC AF

ANTILLAMA FLAME RETARDANT

VULCANO® AF PLUS



ES **Tubo translucido de TPU a base de éter, con espiral de refuerzo de acero recubierta de TPU de alta adhesión de color cobre.** Realizado con un TPU especial dotado de características combinadas, que convierten el material de la pared en antiestático permanente ($R < 10^9$ Ohm/m), resistente a los rayos UV, a los ataques microbianos e hidrolíticos. El TPU especial es ignífugo, según la **UL 94-V0** y el tubo es auto-extinguible según el Regl. alemán **DIN 4102-B1**. Espesor de pared constante de 0,5 mm. Flexible y con óptima resistencia a la abrasión. Comprimido (5:1). Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

- Industria de la madera, pequeños aspiradores industriales, plantas de aspiración ligera de material abrasivo, como faja de protección.

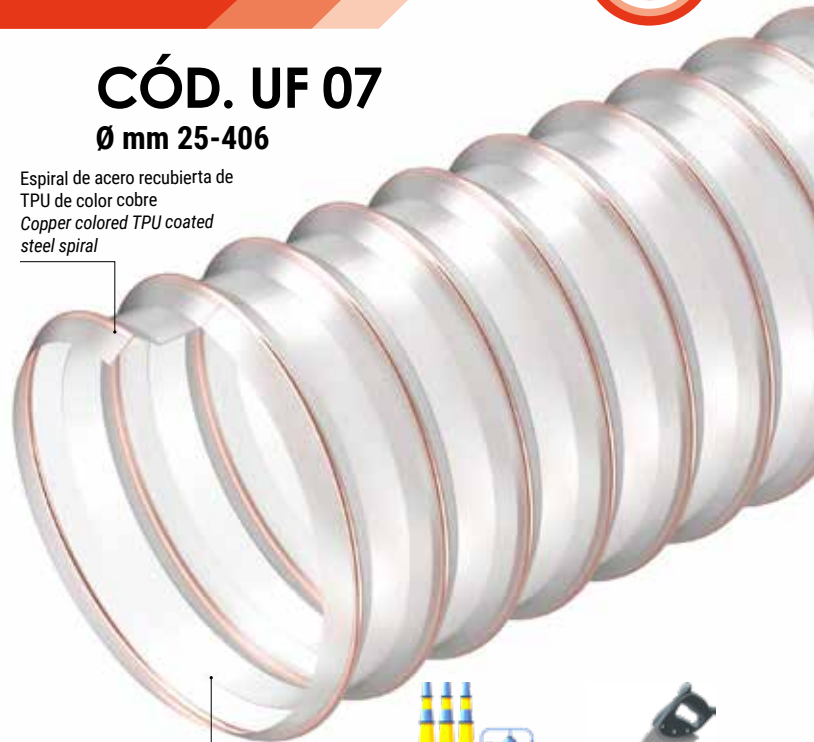
EN **Translucent ether-based TPU hose with a copper-colored TPU-coated steel spiral.** The hose is made of special TPU with combined features that make the wall permanent antistatic ($R < 10^9$ Ohm/m), UV-resistant, resistant to microbial and hydrolytic attacks. The material is also flame retardant, according to UL 94-V0 and the hose is also self-extinguishing, according to the German Reg. **DIN 4102-B1**. Constant wall thickness of 0,5 mm over the entire range. Light and flexible, the hose is suitable for applications where good abrasion resistance is required, especially in the wood industry. Compressible (5:1). Can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

- Suction of sawdust, abrasive dust in the wood processing industry, dedusting, small industrial vacuum cleaners, suction systems, as a protective sleeve.

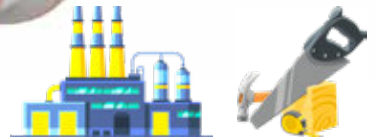
CÓD. UF 07

Ø mm 25-406

Espiral de acero recubierta de TPU de color cobre
Copper colored TPU coated steel spiral



TPU a base de éter autoextinguible
Flame retardant ether-based TPU



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | L.G. ROLLO | VOL. |
|--------------------------------|----------------|--------|--------------|--------|--------------------|--------------|----------------------------------------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | UF07025000000* | 25 | 0,5 | 140 | 2 | 17 | 20 | 0,05 |
| | UF07032000000 | 32 | 0,5 | 175 | 2 | 21 | 20 | 0,06 |
| | UF07038000000* | 38 | 0,5 | 185 | 2 | 25 | 20 | 0,09 |
| | UF07040000000 | 40 | 0,5 | 195 | 2 | 27 | 20 | 0,09 |
| | UF07051000000 | 51 | 0,5 | 270 | 2 | 34 | 20 | 0,11 |
| | UF07060000000* | 60 | 0,5 | 310 | 1,7 | 40 | 20 | 0,13 |
| | UF07063000000* | 63 | 0,5 | 325 | 1,7 | 42 | 20 | 0,19 |
| | UF07065000000* | 65 | 0,5 | 335 | 1,7 | 43 | 20 | 0,19 |
| | UF07076000000 | 76 | 0,5 | 385 | 1,7 | 51 | 20 | 0,22 |
| | UF07080000000* | 80 | 0,5 | 405 | 1,6 | 53 | 20 | 0,23 |
| | UF07090000000* | 90 | 0,5 | 450 | 1,6 | 60 | 20 | 0,29 |
| | UF07100000000* | 100 | 0,5 | 495 | 1,3 | 67 | 20 | 0,48 |
| | UF07102000000 | 102 | 0,5 | 500 | 1,3 | 68 | 20 | 0,49 |
| | UF07110000000* | 110 | 0,5 | 540 | 1,2 | 73 | 20 | 0,52 |
| | UF07120000000* | 120 | 0,5 | 585 | 1 | 80 | 15 | 0,38 |
| | UF07127000000* | 127 | 0,5 | 615 | 1 | 85 | 15 | 0,40 |
| | UF07130000000* | 130 | 0,5 | 630 | 0,8 | 87 | 15 | 0,41 |
| | UF07140000000* | 140 | 0,5 | 810 | 0,8 | 93 | 15 | 0,67 |
| | UF07152000000* | 152 | 0,5 | 875 | 0,8 | 101 | 15 | 0,72 |
| | UF07160000000* | 160 | 0,5 | 915 | 0,7 | 107 | 15 | 0,76 |
| | UF07180000000* | 180 | 0,5 | 1025 | 0,5 | 120 | 15 | 1,00 |
| | UF07203000000* | 203 | 0,5 | 1150 | 0,4 | 135 | 15 | 1,12 |
| | UF07254000000* | 254 | 0,5 | 1425 | 0,4 | 169 | tramo comp. 10 m 10 m compressed straight | 0,16 |
| | UF07305000000* | 305 | 0,5 | 1700 | 0,3 | 153 | tramo comp. 10 m 10 m compressed straight | 0,23 |
| | UF07406000000* | 406 | 0,5 | 2470 | 0,3 | 203 | tramo comp. 10 m 10 m compressed straight | 0,39 |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



VULCANO 09 AF (cód. U901) p.55

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

VULCANO® 09 AF



ES Tubo translucido de TPU a base de éter, con espiral de refuerzo de acero recubierta de TPU de alta adhesión de color cobre. Realizado con un TPU especial dotado de características combinadas, que convierten el material de la pared en antiestático permanente (10^9 Ohm/m), resistente a los rayos UV, a los ataques microbianos e hidrolíticos. El TPU especial es auto-extinguible según la **UL 94-V0** y el tubo es auto-extinguible según el Regl. alemán **DIN 4102-B1**. Espesor de pared constante de 0,9 mm. Flexible y ligero, el tubo es apto para aplicaciones en las que se requiere una buena resistencia a la abrasión, especialmente en la industria maderera. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

- Industria de la madera, pequeños aspiradores industriales, plantas de aspiración ligera de material abrasivo, como faja de protección.

EN Translucent ether based TPU hose reinforced with a copper coloured TPU coated steel spiral. It is made by a special TPU that combines different properties which make the wall material permanent antistatic ($R < 10^9$ Ohm/m); resistant to microbes and Hydrolysis, as well as to UV rays. The special TPU is flame retardant, in compliance with UL 94-V0 and the hose is as well self-extinguishing, according to the German Reg. **DIN 4102-B1**. Constant wall thickness of 0,9 mm for the whole diameter range. Light and flexible, it is suitable for applications where a good abrasion resistance is required, especially in the woodworking industry. The hose can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

- Suction of wood shavings and sawdust, in sawmills and woodworking plants. Used as protection sleeve.

CÓD. U9 01

Ø mm 25-500

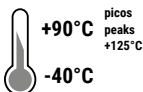
TPU a base de éter autoextinguible
Flame retardant ether-based TPU



Espirales de acero recubierta de TPU de color cobre
Copper colored TPU coated steel spiral



| FICHA TÉCNICA - TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|--|-----------------|--------|--------------|--------|--------------------|--------------|----------------------|----------------|-----------------------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIGE W2 |
| | | | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| | | U9010250000000* | 25 | 0,9 | 200 | 5 | 30 | 20 | 0,04 | - |
| | | U9010300000000* | 30 | 0,9 | 245 | 5 | 35 | 20 | 0,05 | - |
| | | U9010320000000* | 32 | 0,9 | 260 | 5 | 35 | 20 | 0,05 | - |
| | | U9010350000000* | 35 | 0,9 | 285 | 5 | 40 | 20 | 0,06 | - |
| | | U9010380000000* | 38 | 0,9 | 270 | 5 | 40 | 20 | 0,06 | - |
| | | U9010400000000* | 40 | 0,9 | 285 | 5 | 50 | 20 | 0,07 | - |
| | | U9010450000000* | 45 | 0,9 | 365 | 5 | 50 | 20 | 0,09 | - |
| | | U9010500000000* | 50 | 0,9 | 405 | 4 | 60 | 20 | 0,10 | - |
| | | U9010510000000* | 51 | 0,9 | 410 | 4 | 60 | 20 | 0,10 | - |
| | | U9010600000000* | 60 | 0,9 | 480 | 3 | 70 | 20 | 0,13 | - |
| | | U9010630000000* | 63 | 0,9 | 500 | 3 | 70 | 20 | 0,13 | - |
| | | U9010650000000* | 65 | 0,9 | 515 | 3 | 70 | 20 | 0,18 | - |
| | | U9010700000000* | 70 | 0,9 | 640 | 3 | 80 | 20 | 0,20 | - |
| | | U9010750000000* | 75 | 0,9 | 685 | 3 | 90 | 20 | 0,22 | - |
| | | U9010760000000* | 76 | 0,9 | 690 | 3 | 90 | 20 | 0,24 | - |
| | | U9010800000000* | 80 | 0,9 | 725 | 3 | 90 | 20 | 0,26 | F2 W2 076.0 090.0 |
| | | U9010900000000* | 90 | 0,9 | 810 | 2,5 | 100 | 20 | 0,29 | - |
| | | U9011000000000* | 100 | 0,9 | 895 | 2 | 120 | 15 | 0,31 | - |
| | | U9011020000000* | 102 | 0,9 | 915 | 2 | 120 | 15 | 0,32 | - |
| | | U9011100000000* | 110 | 0,9 | 980 | 2 | 130 | 15 | 0,34 | - |
| | | U9011150000000* | 115 | 0,9 | 1025 | 1,5 | 130 | 15 | 0,36 | F2 W2 100.0 127.0 |
| | | U9011200000000* | 120 | 0,9 | 1065 | 1,5 | 140 | 15 | 0,37 | - |
| | | U9011270000000* | 127 | 0,9 | 1310 | 1,5 | 150 | 15 | 0,39 | - |
| | | U9011300000000* | 130 | 0,9 | 1340 | 1,5 | 150 | 15 | 0,40 | - |
| | | U9011400000000* | 140 | 0,9 | 1440 | 1 | 160 | 15 | 0,64 | - |
| | | U9011500000000* | 150 | 0,9 | 1540 | 1 | 170 | 15 | 0,69 | F2 W2 130.0 190.0 |
| | | U9011520000000* | 152 | 0,9 | 1560 | 1 | 170 | 15 | 0,70 | - |
| | | U9011600000000* | 160 | 0,9 | 1640 | 1 | 180 | 15 | 0,73 | - |
| | | U9011800000000* | 180 | 0,9 | 1640 | 0,5 | 210 | 15 | 0,97 | - |
| | | U9012000000000* | 200 | 0,9 | 1815 | 0,5 | 230 | 15 | 1,08 | - |
| | | U9012030000000* | 203 | 0,9 | 1840 | 0,5 | 230 | 15 | 1,09 | F2 W2 200.0 230.0 |
| | | U9012200000000* | 220 | 0,9 | 1990 | 0,3 | 260 | 10 | 1,18 | - |
| | | U9012280000000* | 228 | 0,9 | 2060 | 0,3 | 260 | 10 | 1,22 | - |
| | | U9012500000000* | 250 | 0,9 | 2255 | 0,3 | 290 | 10 | 1,33 | - |
| | | U9012540000000* | 254 | 0,9 | 2290 | 0,3 | 290 | 10 | 1,35 | - |
| | | U9012650000000* | 265 | 0,9 | 2610 | 0,3 | 300 | 10 | 1,41 | - |
| | | U9012790000000* | 279 | 0,9 | 2745 | 0,2 | 320 | 10 | 1,48 | F2 W2 250.0 330.0 |
| | | U9013000000000* | 300 | 0,9 | 2950 | 0,2 | 350 | 10 | 1,59 | - |
| | | U9013050000000* | 305 | 0,9 | 3000 | 0,2 | 350 | 10 | 1,61 | - |
| | | U9013150000000* | 315 | 0,9 | 3095 | 0,2 | 350 | 10 | 1,66 | - |
| | | U9013500000000* | 350 | 0,9 | 3925 | 0,1 | 410 | tramo 10 m/ straight | 1,30 | - |
| | | U9013560000000* | 356 | 0,9 | 3990 | 0,1 | 410 | tramo 10 m/ straight | 1,34 | - |
| | | U9014000000000* | 400 | 0,9 | 4475 | 0,1 | 470 | tramo 10 m/ straight | 1,68 | F2 W2 350.0 410.0 |
| | | U9014060000000* | 406 | 0,9 | 4540 | 0,1 | 470 | tramo 10 m/ straight | 1,73 | - |
| | | U9015000000000* | 500 | 0,9 | 6935 | 0,1 | 470 | tramo 10 m/ straight | 2,60 | - |



F2 W2 p.122
Abrazaderas doble puente W2 / Double bridge W2

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



VULCANO AF PLUS (cód. UF07) p.54

*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.
Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

VULCANO® PVC AF



ES Tubo de PVC-P de color negro, con espiral de refuerzo de acero. Interno y externo ligeramente corrugado. El tubo especial, es auto-extinguible según la **UL 94-V0**. Espesor de pared constante de 0,6 mm. Especialmente flexible, ofrece radios de curvatura extremos. Resistente a los rayos UV, a los agentes atmosféricos y a numerosas substancias químicas. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

• Ventilación y acondicionamiento industrial: aspiración de aire, humos y gases.

EN **Black PVC-P hose, reinforced with a steel spiral.** Slightly corrugated inside and outside. This hose is flame retardant, according to UL 94 V0. Constant wall thickness 0,6 mm.

Thanks to its high mechanical properties, it can be used in many applications, especially when good dynamic properties are required: flexible, light, easy to handle, really good bending. Good resistance to most chemicals, ozone, UV rays, weathering and ageing. The hose can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

• Ventilation and air conditioning systems, fumes and dust extraction, suction of vapours and gases.

CÓD. VP 04
Ø mm 76-203



Tubo en PVC-P
PVC-P hose

Espiral de acero
Steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|-----------------|--------|--------------|--------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | VP040760000000* | 76 | 0,6 | 570 | 1,7 | 65 | 20 | 0,22 |
| | VP041020000000* | 102 | 0,6 | 725 | 1,3 | 90 | 15 | 0,33 |
| | VP041100000000* | 110 | 0,6 | 780 | 1,3 | 95 | 15 | 0,35 |
| | VP041270000000* | 127 | 0,6 | 885 | 1 | 110 | 15 | 0,40 |
| | VP041500000000* | 150 | 0,6 | 1045 | 0,8 | 130 | 15 | 0,71 |
| | VP042030000000* | 203 | 0,6 | 1475 | 0,4 | 175 | 15 | 0,94 |



*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

(ES) Tubo transparente de TPU a base de éster, auto-extinguible según UL 94 V2, con espiral de refuerzo de PVC rígido antichoque de color marfil; superficie interna perfectamente lisa; muy ligero y flexible, presenta una notable resistencia a la abrasión y a la flexión. Versión antiestática con hilo y cobre (cód. FF 02) disponible según pedido.

- Aspiración de polvo, grava, gránulos, y substancias abrasivas de la industria en general y allí donde sean necesarias propiedades autoextinguibles.

(EN) Transparent ester based TPU hose, flame retardant, according to UL 94 V2 and reinforced with an ivory anti-shock rigid PVC spiral; completely smooth inside, it's very flexible and light.

Really good resistance to abrasion and torsion. AS version with copper wire on request (Cod. FF 02).

- Suction of abrasive media such as powders, granulates, wood shavings and dust and where good self-extinguishing properties are required.

CÓD. FF
Ø mm 19-160



Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral

TPU a base de éster autoextinguible
Flame retardant Ester based TPU



FICHA TÉCNICA · TECHNICAL DATA



| CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|-----------------|--------|--------------|--------------|--------|--------------------|--------------|------------|----------------|
| CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| FF010190000000* | 19,1 | 0,4 | 2,8 | 110 | 2,5 | 25 | 20 | 0,022 |
| FF010200000000* | 20 | 0,4 | 2,8 | 120 | 2,5 | 25 | 20 | 0,027 |
| FF010300000000* | 30 | 0,4 | 2,8 | 170 | 2,5 | 35 | 20 | 0,051 |
| FF010520000000* | 50,8 | 0,5 | 3,4 | 350 | 2 | 70 | 20 | 0,111 |
| FF010600000000* | 60 | 0,5 | 3,8 | 490 | 1,6 | 80 | 20 | 0,130 |
| FF010630000000* | 63,5 | 0,5 | 3,9 | 540 | 1,6 | 80 | 20 | 0,183 |
| FF010760000000* | 76,2 | 0,6 | 4,2 | 640 | 1,6 | 100 | 30 | 0,365 |
| FF010800000000* | 80 | 0,6 | 4,5 | 690 | 1,6 | 110 | 30 | 0,384 |
| FF010900000000* | 90 | 0,6 | 4,6 | 800 | 1,4 | 125 | 30 | 0,429 |
| FF011600000000* | 160 | 0,7 | 7,2 | 2070 | 0,7 | 220 | 20 | 0,893 |

*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

EOLO PVC AF



ES Tubo en PVC-P de color verde, con adición de aditivos auto-extinguible y espiral de refuerzo en PVC rígido antichoque. El material especial es auto-extinguible según la UL 94-V0. Superficie interna perfectamente lisa, externa corrugada. Muy ligero y flexible. Versión antiestática con hilo de cobre (cód. EF 76) disponible según pedido.

• Ventilación y acondicionamiento industrial: aspiración de aire, humos y gases; industria naval.

EN Green flame retardant PVC-P hose, reinforced by an anti-shock rigid PVC spiral. Inside perfectly smooth, outside corrugated. Very light and flexible. The material is flame retardant, according to UL 94 V0. AS version with copper wire available on request (Cod. EF 76).

• Suction of air, fumes and gas; industrial ventilation systems and air conditioning plants; used in the shipbuilding industry.

CÓD. EF 75

Ø mm 20-300

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P antillama
Flame retardant PVC-P hose



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOLUMEN |
|--------------------------------|----------------|--------|--------------|--------------|--------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | EF75020000000* | 20 | 0,8 | 2,7 | 140 | 2 | 32 | 50 | 0,054 |
| | EF75025000000* | 25 | 0,8 | 2,7 | 170 | 2 | 32 | 50 | 0,073 |
| | EF75027000000* | 27 | 0,8 | 2,7 | 180 | 2 | 33 | 50 | 0,077 |
| | EF75032000000* | 31,8 | 0,8 | 2,7 | 220 | 2 | 35 | 50 | 0,121 |
| | EF75038000000* | 38,1 | 0,8 | 3 | 270 | 2 | 45 | 50 | 0,141 |
| | EF75040000000* | 40 | 0,8 | 3,1 | 300 | 2 | 50 | 50 | 0,177 |
| | EF75045000000* | 45 | 0,8 | 3,4 | 380 | 2 | 55 | 50 | 0,199 |
| | EF75050000000* | 50 | 0,9 | 3,7 | 460 | 2 | 60 | 50 | 0,248 |
| | EF75052000000 | 50,8 | 0,9 | 3,7 | 470 | 2 | 60 | 50 | 0,251 |
| | EF75055000000* | 55 | 0,9 | 3,7 | 500 | 2 | 65 | 50 | 0,270 |
| | EF75060000000* | 60 | 0,9 | 3,7 | 550 | 1,6 | 70 | 50 | 0,388 |
| | EF75063000000* | 63,5 | 0,9 | 3,7 | 580 | 1,6 | 70 | 50 | 0,408 |
| | EF75070000000* | 70 | 1 | 3,9 | 630 | 1,5 | 90 | 50 | 0,448 |
| | EF75076000000* | 76,2 | 1 | 3,9 | 690 | 1,5 | 100 | 50 | 0,605 |
| | EF75080000000 | 80 | 1 | 4,5 | 820 | 1,5 | 110 | 50 | 0,641 |
| | EF75090000000* | 90 | 1 | 4,5 | 920 | 1,5 | 130 | 30 | 0,428 |
| | EF75100000000 | 100 | 1 | 4,9 | 1060 | 1,3 | 140 | 30 | 0,632 |
| | EF75102000000* | 102 | 1 | 4,9 | 1080 | 1,3 | 145 | 30 | 0,644 |
| | EF75110000000* | 110 | 1 | 5,1 | 1200 | 1,2 | 150 | 30 | 0,692 |
| | EF75120000000* | 120 | 1 | 5,1 | 1300 | 1 | 160 | 30 | 0,750 |
| | EF75127000000* | 127 | 1 | 5,1 | 1380 | 0,9 | 170 | 30 | 0,790 |
| | EF75130000000* | 130 | 1 | 5,1 | 1410 | 0,9 | 170 | 30 | 1,077 |
| | EF75140000000* | 140 | 1 | 5,3 | 1590 | 0,9 | 175 | 30 | 1,157 |
| | EF75150000000 | 151,5 | 1,1 | 5,5 | 1760 | 0,9 | 180 | 20 | 0,832 |
| | EF75152000000* | 152,4 | 1,1 | 5,5 | 1770 | 0,9 | 180 | 20 | 0,837 |
| | EF75160000000* | 160 | 1,5 | 6,8 | 2380 | 0,9 | 200 | 20 | 0,889 |
| | EF75180000000* | 180 | 1,5 | 6,9 | 2720 | 0,9 | 220 | 20 | 1,550 |
| | EF75200000000 | 200 | 1,5 | 7,4 | 3120 | 0,9 | 240 | 20 | 1,718 |
| | EF75203000000* | 203,2 | 1,5 | 7,4 | 3170 | 0,9 | 250 | 20 | 1,744 |
| | EF75250000000* | 250 | 1,5 | 7,4 | 3880 | 0,9 | 280 | 10 | 1,356 |
| | EF75254000000* | 254 | 1,5 | 7,4 | 3950 | 0,9 | 290 | 10 | 1,376 |
| | EF75300000000* | 300 | 1,5 | 7,6 | 4800 | 0,9 | 330 | 10 | 1,614 |



*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.



APOLLO OIL
APOLLO NL1 OIL
PLUTONE PK
PLUTONE PO
MARTE A.O.
SPIRALPRESS OIL
ARIANNA TA FUEL

PETROLQUÍMICO PETROCHEMICAL



ES Tubo de PVC/NBR de color azul, reforzado con espiral de PVC rígido antichoque. Interno liso y externo ligeramente corrugado. Muy resistente al aplastamiento, a la abrasión, a los agentes atmosféricos y a numerosas substancias químicas. Versión antiestática con hilo de cobre (cód. OI 02) disponible según pedido.

• Aspiración e impulsión de aceites minerales, lubricantes, carburantes crudos (nafta, diesel) y como línea de retorno de circuitos hidráulicos.

EN Blue PVC-NBR hose manufactured incorporating a spiral reinforcement of anti-shock rigid PVC. Inside surface smooth, light corrugated outside. Very strong and resistant to crushing, abrasion, weathering and most chemicals. On request, It can be manufactured in the AS version with copper wire (Cod. OI 02).

• Suction and delivery of mineral oils, lubricants, crude fuel (naphta, diesel oil) and as a return line in hydraulic systems.

CÓD. OI 01

Ø mm 20-203

Espirales de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo in PVC-NBR
PVC-NBR hose



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|----------------|----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING R. | COIL LGTH. | VOLUME |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | | 0101020000000* | 20 | 3,2 | 3,5 | 290 | 7 | 21 | 10 | 80 | 50 | 0,069 |
| | | 0101025000000* | 25 | 3,4 | 3,8 | 390 | 6 | 18 | 10 | 100 | 50 | 0,083 |
| | | 0101025400000* | 25,4 | 3,4 | 3,8 | 400 | 6 | 18 | 10 | 100 | 50 | 0,084 |
| | | 0101032000000* | 31,8 | 4 | 4,4 | 590 | 6 | 18 | 10 | 130 | 50 | 0,130 |
| | | 0101038000000* | 38,1 | 3,9 | 4,5 | 670 | 5 | 15 | 10 | 155 | 50 | 0,203 |
| | | 0101040000000* | 40 | 3,9 | 4,5 | 700 | 5 | 15 | 10 | 160 | 50 | 0,212 |
| | | 0101052000000* | 50,8 | 4,3 | 4,9 | 970 | 4 | 12 | 10 | 200 | 50 | 0,262 |
| | | 0101055000000* | 55 | 4,5 | 5,1 | 1100 | 4 | 12 | 9 | 220 | 50 | 0,376 |
| | | 0101060000000* | 60 | 4,7 | 5,4 | 1270 | 4 | 12 | 9 | 260 | 50 | 0,408 |
| | | 0101063000000* | 63,5 | 4,8 | 5,5 | 1370 | 4 | 12 | 9 | 260 | 50 | 0,429 |
| | | 0101070000000* | 70 | 4,9 | 5,6 | 1490 | 3 | 9 | 9 | 350 | 50 | 0,585 |
| | | 0101076000000* | 76,2 | 5 | 5,7 | 1660 | 3 | 9 | 9 | 310 | 50 | 0,631 |
| | | 0101080000000* | 80 | 5,2 | 6 | 1810 | 3 | 9 | 9 | 400 | 50 | 0,795 |
| | | 0101090000000* | 90 | 5,4 | 6,3 | 2110 | 3 | 9 | 9 | 360 | 30 | 0,591 |
| | | 0101102000000* | 102 | 6 | 7,1 | 2680 | 3 | 9 | 8,5 | 410 | 30 | 0,837 |
| | | 0101127000000* | 127 | 6,4 | 7,5 | 3510 | 2,5 | 7,5 | 8 | 510 | 30 | 1,091 |
| | 0101152000000* | 152,4 | 7,4 | 8,7 | 4930 | 2 | 6 | 8 | 610 | 20 | 1,358 | |
| | 0101203000000* | 203,2 | 10,9 | 12,9 | 10010 | 1,5 | 4,5 | 7 | 850 | 10 | 1,832 | |

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



APOLLO NL1 OIL(cód. A1 09) p.61

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

APOLLO NL1 OIL



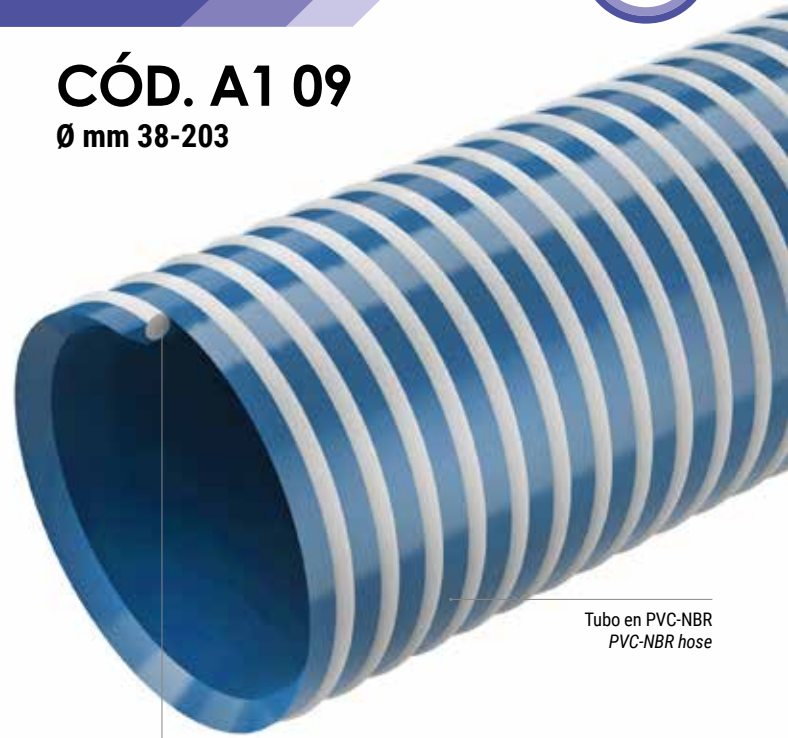
(ES) Tubo de PVC/NBR de color azul, reforzado con espiral de PVC rígido antichoque gris. Estructura con espiral a vista, consiente la reducción de la fricción durante su desplazamiento. Fórmula especial específica para mantener una alta flexibilidad, incluso a bajas temperaturas. Interno liso y externo ligeramente corrugado. Muy resistente al aplastamiento, a la abrasión, a los agentes atmosféricos y a numerosas sustancias químicas. Versión antiestática con hilo de cobre (cód. A1 19) disponible según pedido.

- Aspiración e impulsión de aceites minerales, lubricantes, carburantes crudos (nafta, diesel) y como línea de retorno de circuitos hidráulicos. Aspiración y paso de líquidos de aguas residuales

(EN) Blue PVC-NBR hose manufactured using super elastic material and reinforced with grey anti-shock rigid PVC spiral. Its exposed spiral allows an easy dragging. Special formula conceived for keeping flexibility even at low temperatures. Inside surface smooth, slightly corrugated outside. Very strong and resistant to crushing, abrasion, weathering and most chemicals. AS version with copper wire available on request (Cod. A1 19).

- Suction and delivery of mineral oils, lubricants, crude fuel (naphta, diesel oil) and as a return line in hydraulic systems; in waste management, it is used as suction and discharge hose.

CÓD. A1 09
Ø mm 38-203



Tubo en PVC-NBR
PVC-NBR hose

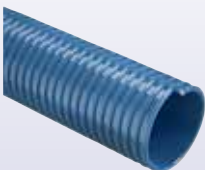
Espiral a vista de PVC rígido antichoque
Exposed anti-shock rigid PVC spiral



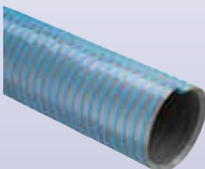
| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING R. | COIL LGTH. | VOLUME |
| | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | A109038000000* | 38,1 | 3,3 | 4,8 | 650 | 4,2 | 12,5 | 8 | 140 | 50 | 0,183 |
| | A109052000000* | 50,8 | 3,6 | 5,3 | 950 | 3,5 | 10,5 | 8 | 180 | 50 | 0,354 |
| | A109060000000* | 60 | 3,9 | 5,8 | 1250 | 3 | 9 | 8 | 230 | 50 | 0,412 |
| | A109063000000* | 63,5 | 3,9 | 5,8 | 1320 | 3 | 9 | 8 | 230 | 50 | 0,433 |
| | A109076000000* | 76,2 | 4,2 | 6,2 | 1620 | 3 | 9 | 8 | 290 | 50 | 0,638 |
| | A109090000000* | 90 | 4,4 | 6,8 | 2020 | 2,5 | 7,5 | 8 | 340 | 30 | 0,597 |
| | A109102000000* | 102 | 4,8 | 7,7 | 2570 | 2 | 6 | 7 | 380 | 30 | 0,902 |
| | A109127000000* | 127 | 5,2 | 8,2 | 3420 | 2 | 6 | 7 | 500 | 30 | 1,468 |
| | A109152000000* | 152,4 | 6,1 | 9,4 | 4810 | 1,5 | 4,5 | 7 | 630 | 20 | 1,370 |
| | A109203000000* | 203,2 | 8,3 | 12,5 | 8670 | 1 | 3 | 6 | 900 | 10 | 1,826 |



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



APOLLO OIL (cód. OI 01) p.60



APOLLO NL1 (cód. A1) p.69

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

PLUTONE PK



(ES) Tubo de goma termoplástica TPV de color verde, con una tira identificativa blanca, reforzado con espiral de acero armónico y con revestimiento téxtil. Superficie interna y cobertura externa lisas para reducir la fricción y el posible acúmulo de residuos. Estudiado para la industria química. Muy resistente a los agentes atmosféricos, al ozono, al envejecimiento y a numerosas substancias químicas. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

• Industria química : aspiración y transporte de ácidos, álcalis y substancias químicas

(EN) White/beige TPV inline, reinforced with steel spiral and polyester yarn. Green TPV cover with longitudinal white stripe. Linner and cover are smooth, to reduce friction and dirt collection while using it. Robust hose dedicated to the chemical industry, suitable for suction and delivery. It can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

• Good resistance to ageing, weathering and ozone. Suction and delivery of acids, alkali and chemicals of various kind.

CÓD. PK
Ø mm 20-102



Tubo en TPV
TPV hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement

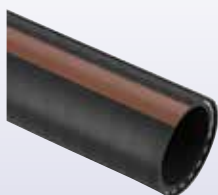
Espiral de acero
Steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING R. | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | PK010200029000 | 20 | 29 | 390 | 14 | 42 | 10 | 80 | 60 | 0,106 |
| | PK010250035000 | 25 | 35 | 540 | 13 | 39 | 10 | 100 | 60 | 0,146 |
| | PK010300040000* | 30 | 40 | 630 | 13 | 39 | 9 | 120 | 60 | 0,184 |
| | PK010320043000 | 32 | 43 | 730 | 12 | 36 | 9 | 130 | 60 | 0,214 |
| | PK010380049000 | 38 | 49 | 850 | 12 | 36 | 9 | 150 | 30 | 0,198 |
| | PK010400051000* | 40 | 51 | 885 | 11 | 33 | 9 | 160 | 30 | 0,202 |
| | PK010450058000* | 45 | 58 | 1280 | 15 | 45 | 8 | 230 | 30 | 0,241 |
| | PK010500063000 | 50 | 63 | 1400 | 13 | 39 | 8 | 250 | 30 | 0,286 |
| | PK010520065000* | 52 | 65 | 1450 | 13 | 39 | 8 | 260 | 30 | 0,291 |
| | PK010600074000* | 60 | 74 | 1755 | 12 | 36 | 8 | 300 | 30 | 0,365 |
| | PK010630077000* | 63 | 77 | 1835 | 11 | 33 | 8 | 320 | 30 | 0,379 |
| | PK010700085000* | 70 | 85 | 2110 | 10 | 30 | 7 | 350 | 30 | 0,469 |
| | PK010760091000* | 76 | 91 | 2275 | 10 | 30 | 7 | 380 | 30 | 0,604 |
| | PK010800095000* | 80 | 95 | 2345 | 9 | 27 | 7 | 400 | 20 | 0,498 |
| | PK010900106000* | 90 | 106 | 2865 | 9 | 27 | 7 | 450 | 20 | 0,760 |
| | PK011020118000* | 102 | 118 | 3210 | 8 | 24 | 7 | 510 | 20 | 0,801 |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



PLUTONE PO (cód. PH) p.63

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

PLUTONE PO



(ES) Tubo de color negro con una raya identificativa marrón oscuro, de composición especial de PVC/NBR reforzado con espiral de acero armónico y con revestimiento téxtil de alta tenacidad. Conductivo ($R < 10^2$ Ohm/m) conectando a tierra el hilo de cobre incorporado en las capas. Superficie interna y cobertura externa lisas para reducir la fricción y el posible acúmulo de residuos. Muy flexible a bajas temperaturas. Resistente a la abrasión, al envejecimiento, a los agentes atmosféricos y al ozono.

- Industria química: aspiración y transporte de aceites minerales, lubricantes, carburantes crudos (nafta, diesel) y como línea de retorno de circuitos hidráulicos.

(EN) Black hose with a brown stripe on the cover: inner layer made with a special blend of PVC/NBR, the structure is reinforced both by a harmonic steel wire and polyester yarn. The copper wire between the two layers makes the hose conductive ($R < 10^2$ Ohm/m). Liner and cover are smooth, to reduce friction and dirt collection while using it. Very flexible even at low temperatures, resistant to abrasion, ageing, weathering and ozone.

- Suction and delivery of mineral oils, lubricants, crude fuel (naphta, diesel oil) and as a return line in hydraulic systems.

CÓD. PH

Ø mm 20-102

Cordón de cobre incorporado entre las dos capas
Copper wire embedded between the two layers



Tubo en PVC-NBR
PVC-NBR hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement

Espiral de acero
Steel spiral

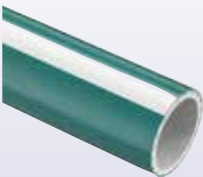


| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING R. | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | PH010200029000 | 20 | 29 | 470 | 14 | 42 | 10 | 60 | 60 | 0,106 |
| | PH010250035000 | 25 | 35 | 650 | 12 | 36 | 9 | 80 | 60 | 0,146 |
| | PH010300040000* | 30 | 40 | 760 | 11 | 33 | 9 | 90 | 60 | 0,181 |
| | PH010320043000* | 32 | 43 | 885 | 11 | 33 | 9 | 100 | 60 | 0,214 |
| | PH010350046000* | 35 | 46 | 955 | 10 | 30 | 9 | 110 | 60 | 0,225 |
| | PH010380049000* | 38 | 49 | 1025 | 10 | 30 | 9 | 110 | 30 | 0,198 |
| | PH010400053000 | 40 | 53 | 1275 | 10 | 30 | 8 | 120 | 30 | 0,207 |
| | PH010450058000* | 45 | 58 | 1500 | 9 | 27 | 8 | 140 | 30 | 0,241 |
| | PH010500063000 | 50 | 63 | 1645 | 8 | 24 | 8 | 150 | 30 | 0,286 |
| | PH010520065000* | 52 | 65 | 1705 | 8 | 24 | 8 | 160 | 30 | 0,291 |
| | PH010600074000* | 60 | 74 | 2070 | 7 | 21 | 8 | 180 | 30 | 0,365 |
| | PH010630077000* | 63 | 77 | 2165 | 7 | 21 | 7 | 190 | 30 | 0,379 |
| | PH010760091000* | 76 | 91 | 2705 | 6 | 18 | 7 | 230 | 30 | 0,604 |
| | PH010800095000* | 80 | 95 | 2805 | 6 | 18 | 7 | 240 | 20 | 0,498 |
| | PH010900106000* | 90 | 106 | 3415 | 5 | 15 | 7 | 270 | 20 | 0,760 |
| | PH011020118000* | 102 | 118 | 3830 | 4 | 12 | 7 | 310 | 20 | 0,801 |

JP en stock
available on stock

+80°C
-30°C

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



PLUTONE PK (cód. PK) p.62

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.



ES Tubo de color azul, elaborado con un compuesto especial de PVC-P anti-migración con espiral de refuerzo de PVC rígido antichoque. Superficie interna perfectamente lisa. Resistente a la abrasión, a los agentes atmosféricos. Versión antiestático con hilo de cobre(cód., MT 02) disponible según pedido.

- Aspiración e impulsión de aceites minerales carburantes crudos (nafta, diesel) y lubricantes en general.

EN Blue hose in special antimigration PVC compound, reinforced with an anti-shock rigid PVC spiral. Inside completely smooth, it's resistant to abrasion, ageing, weathering and ozone. On request, it is available in the AS version with copper wire (Cod. MT 02).

- Suction and delivery of mineral oils, lubricants, crude oils (naphta and diesel oil).

CÓD. MT
Ø mm 19-203

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo de PV-P anti-migración
antimigration PVC-P hose



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|--------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING R. | COIL LGTH. | VOLUME |
| | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| MT010190000000* | 19,1 | 4 | 4,3 | 390 | 8 | 24 | 10 | 140 | 50 | 0,071 | |
| MT010200000000* | 20 | 4 | 4,3 | 400 | 8 | 24 | 10 | 140 | 50 | 0,073 | |
| MT010220000000* | 22 | 4,1 | 4,4 | 450 | 8 | 24 | 10 | 160 | 50 | 0,079 | |
| MT010250000000* | 25 | 4,3 | 4,6 | 530 | 8 | 24 | 10 | 170 | 50 | 0,109 | |
| MT010254000000* | 25,4 | 4,3 | 4,6 | 540 | 8 | 24 | 10 | 170 | 50 | 0,111 | |
| MT010300000000* | 30 | 4,4 | 4,7 | 640 | 8 | 24 | 10 | 195 | 50 | 0,126 | |
| MT010320000000* | 31,8 | 4,4 | 4,7 | 670 | 8 | 24 | 10 | 205 | 50 | 0,132 | |
| MT010350000000* | 35 | 4,4 | 4,8 | 730 | 7 | 21 | 10 | 220 | 50 | 0,171 | |
| MT010380000000* | 38,1 | 4,4 | 4,8 | 790 | 7 | 21 | 10 | 235 | 50 | 0,206 | |
| MT010400000000* | 40 | 4,3 | 4,8 | 810 | 7 | 21 | 10 | 250 | 50 | 0,214 | |
| MT010450000000* | 45 | 4,4 | 4,8 | 910 | 6 | 18 | 10 | 275 | 50 | 0,236 | |
| MT010500000000* | 50 | 4,9 | 5,3 | 1130 | 6 | 18 | 10 | 300 | 50 | 0,436 | |
| MT010520000000 | 50,8 | 4,9 | 5,3 | 1150 | 6 | 18 | 10 | 300 | 50 | 0,442 | |
| MT010550000000* | 55 | 5,3 | 5,8 | 1370 | 6 | 18 | 10 | 330 | 50 | 0,384 | |
| MT010600000000* | 60 | 5,4 | 5,9 | 1510 | 6 | 18 | 10 | 355 | 50 | 0,620 | |
| MT010630000000* | 63,5 | 5,6 | 6 | 1640 | 6 | 18 | 10 | 370 | 50 | 0,652 | |
| MT010700000000* | 70 | 5,8 | 6,3 | 1850 | 5 | 15 | 10 | 410 | 50 | 0,714 | |
| MT010760000000 | 76,2 | 5,8 | 6,3 | 2000 | 5 | 15 | 10 | 440 | 50 | 0,767 | |
| MT010800000000* | 80 | 5,9 | 6,6 | 2130 | 5 | 15 | 10 | 460 | 30 | 0,671 | |
| MT010900000000* | 90 | 6,2 | 6,9 | 2520 | 4 | 12 | 10 | 530 | 30 | 0,747 | |
| MT011000000000* | 100 | 7,1 | 7,9 | 3220 | 4 | 12 | 9 | 600 | 30 | 0,889 | |
| MT011020000000 | 102 | 7,1 | 7,9 | 3280 | 4 | 12 | 9 | 600 | 30 | 0,905 | |
| MT011100000000* | 110 | 7,2 | 8 | 3560 | 4 | 12 | 9 | 690 | 30 | 1,290 | |
| MT011270000000* | 127 | 7,3 | 8,1 | 4140 | 4 | 12 | 9 | 800 | 30 | 1,466 | |
| MT011500000000* | 151,5 | 9 | 10 | 6200 | 3 | 9 | 8,5 | 1300 | 20 | 1,372 | |
| MT011520000000* | 152,4 | 9 | 10 | 6230 | 3 | 9 | 8,5 | 1300 | 20 | 1,379 | |
| MT012030000000* | 203,2 | 10,7 | 12,5 | 10030 | 2 | 6 | 7 | 1200 | 10 | 1,826 | |

JP en stock
available on stock



*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

SPIRALPRESS OIL



(ES) Tubo de PVC/NBR de color negro, con espiral de PVC rígido antichoque de color naranja y con refuerzo textil de poliéster de alta tenacidad. Estructura con espiral exterior, consiente la reducción de la fricción durante su desplazamiento. Conductivo ($R < 10^2$ Ohm/m) conectando a tierra el hilo de cobre incorporado en las espiral de PVC. Más ligero y flexible que las mangueras de goma convencionales. Muy resistente a aceites y lubricantes.

- Carga y descarga de hidrocarburos y gasolina con contenido aromático de hasta 50%. Espiral disponible bajo pedido (cód. SC WT).

(EN) Special black PVC-NBR tank drop hose, reinforced with an anti-shock rigid PVC spiral and polyester yarn; exposed spiral for easy handling and dragging. The hose is conductive ($R < 10^2$ Ohm/m) by earthing the copper wire under the PVC spiral. Lighter and more flexible than conventional rubber hoses. It's very resistant to oils and lubricants

- Excellent solution for suction and discharge of petroleum and gasoline with an aromatic content up to 50%. Banding coil available on request, Cod. SC WT).

CÓD. SQ
Ø mm 50,8-102

Tubo en PVC-NBR
PVC-NBR hose



Hilo de cobre incorporado en las espiral de PVC
Copper wire embedded under the PVC spiral

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement

Espiral a vista de PVC rígido antichoque
Exposed anti-shock rigid PVC spiral

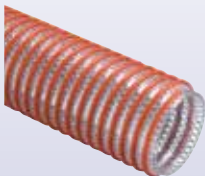


| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | Ø EST. | MIN ESP. | MAX ESP. | PESO | P.T. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME | LG. ESPIRAL |
|--------------------------------|--|----------------|-----------|--------|--------------|--------------|--------|------|--------------------|--------------|------------|----------------|--------------------|
| | | CODE | Ø INT. | Ø OUT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | VACUUM | BENDING R. | COIL LGTH. | VOLUME | BANDING COIL LGTH. |
| | | | mm/ inch | mm | mm | mm | g/m | bar | m H ₂ O | mm | m | m ³ | mm |
| | | SQ010508000000 | 50,8/ 2" | 66,6 | 3,2 | 7,9 | 1150 | 7 | 9,5 | 200 | 30 | 0,288 | 180 |
| | | SQ010760000000 | 76,2/ 3" | 96,2 | 3,7 | 10 | 1960 | 6 | 9 | 260 | 30 | 0,416 | 225 |
| | | SQ011020000000 | 101,6/ 4" | 123 | 3,7 | 10,7 | 2730 | 6 | 9 | 360 | 30 | 0,945 | 240 |

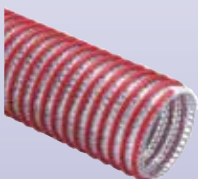


SC WT p.125
Espiral naranja/ Orange banding coil

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



SPIRALPRESS WT (cód. WT) p.72



SPIRALPRESS ENO (cód. BS EN) p.111

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% umidity.

ARIANNA TA FUEL



ES Tubo de color negro fabricado con compuesto especial de PVC anti-migración, con refuerzo textil de fibra de poliéster y cubierta de PVC-P. Superficie interior y exterior completamente lisa, buena resistencia a la intemperie, los productos químicos, el ozono y los aceites minerales.

- Transporte de combustibles (gasolina), lubricantes, aceites minerales.

EN Black hose made of special antimigration PVC-P compound, with polyester fibre textile reinforcement and PVC-P cover. Completely smooth inner and outer surfaces, good resistance to weathering, chemicals, ozone and mineral oils.

- Transport of fuels (petrol), lubricants, mineral oils.

CÓD. AT 11
Ø mm 8-10

Tubo de PVC-P anti-migración
antimigration PVC-P hose



Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement

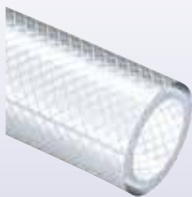
Cubierta de PVC-P
PVC-P cover



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|-----------------|--------|--------|--------|------|------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | BENDING R. | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | mm | m | m ³ |
| | AT110080013000* | 8 | 13 | 115 | 23 | 69 | 40 | 100 | 0,028 |
| | AT110100016000* | 10 | 16 | 170 | 25 | 75 | 50 | 100 | 0,041 |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



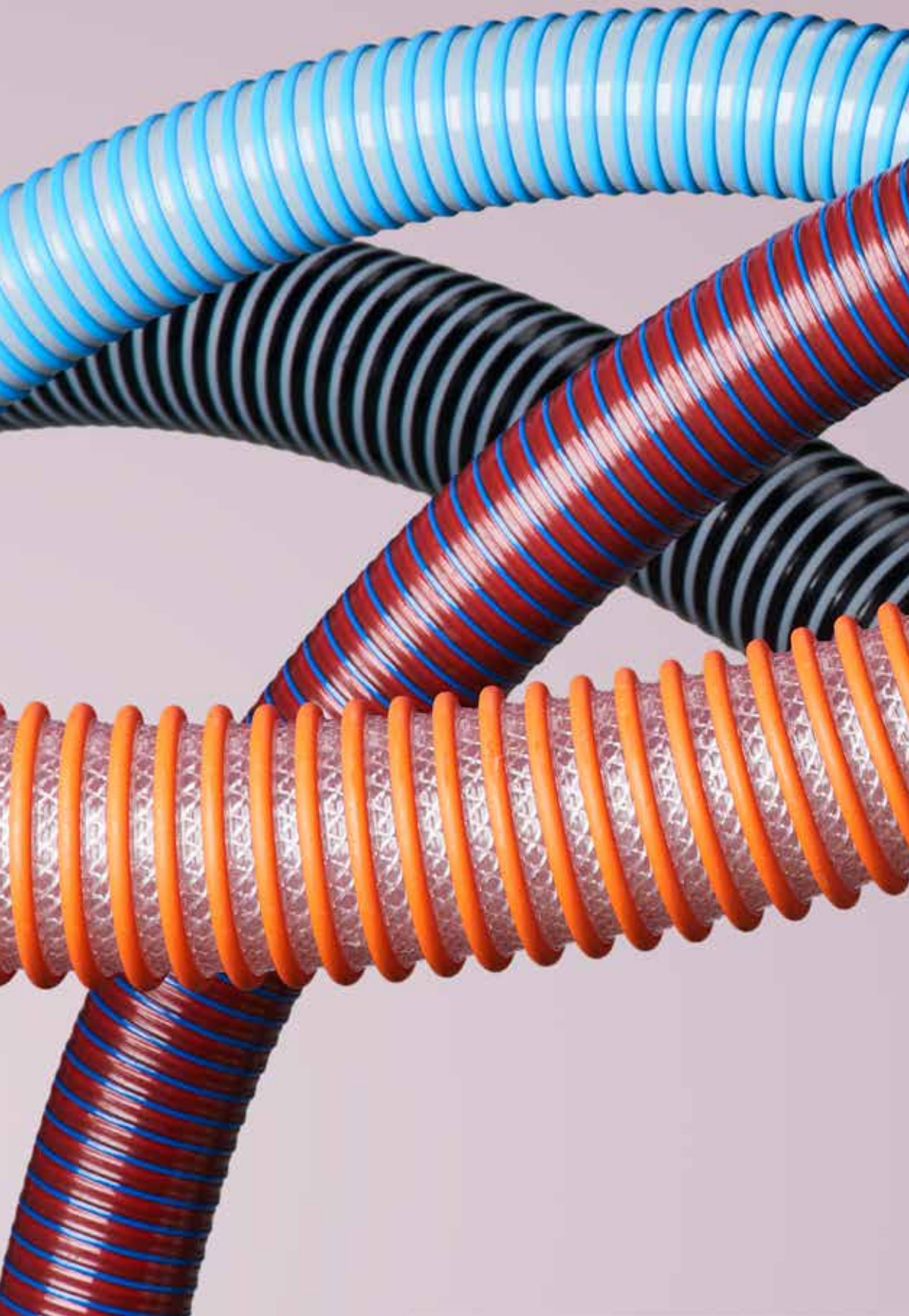
ARIANNA TA (cód. A5) p.103

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.



APOLLO SE
APOLLO NL 1
APOLLO SUPERFLEX
APOLLO SUPERFLEX 2
SPIRALPRESS WT
PLUTONE PW
GIOVE SE
NETTUNO SE
SATURNO L
SATURNO L SE
SATURNO AQUAPOL
SATURNO IDRO SE
NAUTILUS ODOR PROOF
ARIANNA 20 BAR
ARIANNA 40 BAR
ARIANNA 80 BAR
MERCURIO M

LÍQUIDOS FLUIDS HANDLING

ES Tubo de PVC-P de color azul con una raya roja, reforzado con espiral de PVC rígido antichoque. Superficie interna perfectamente lisa; flexible incluso a bajas temperaturas.

Resistente a la abrasión, a los agentes atmosféricos y a numerosas substancias químicas. Versión antiestática con hilo de cobre (cód. AX 02) disponible bajo pedido.

• Óptimo para aspiración de líquidos en general y especialmente para utilizarse en camiones cisterna por sus características físico-mecánicas; aspiración de residuos y descarga de aguas negras.

EN Blue PVC-P hose with an extruded red stripe, reinforced with an anti-shock rigid PVC spiral. Particularly suitable to be used at low temperatures. Inside surface completely smooth, slightly corrugated outside. Strong and flexible, resistant to crushing, abrasion, weathering and to most chemicals. On request, it can be manufactured in AS version with copper wire (Cod. AX 02).

• Excellent for suction of liquids in waste management, particularly suitable to be used on tank trucks, thanks to its physical- mechanical features.

CÓD. AX

Ø mm 19-305

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose



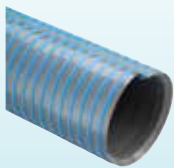
| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|--|-----------------|--------|--------------|--------------|--------|------|------|--------------------|----------------|----------------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | m ³ | m | m ³ |
| | | AX010190000000* | 19,1 | 3,2 | 3,6 | 290 | 7 | 21 | 10 | 80 | 50 | 0,057 |
| | | AX010200000000* | 20 | 3,2 | 3,6 | 300 | 7 | 21 | 10 | 80 | 50 | 0,059 |
| | | AX010250000000 | 25 | 3,4 | 3,9 | 400 | 6 | 18 | 10 | 100 | 50 | 0,094 |
| | | AX010300000000 | 30 | 3,9 | 4,3 | 540 | 6 | 18 | 10 | 120 | 50 | 0,124 |
| | | AX010320000000 | 31,8 | 3,9 | 4,3 | 570 | 6 | 18 | 10 | 130 | 50 | 0,129 |
| | | AX010350000000* | 35 | 3,9 | 4,4 | 620 | 5 | 15 | 10 | 140 | 50 | 0,140 |
| | | AX010380000000 | 38,1 | 3,9 | 4,4 | 670 | 5 | 15 | 10 | 155 | 50 | 0,180 |
| | | AX010390000000* | 39 | 3,9 | 4,4 | 680 | 5 | 15 | 10 | 155 | 50 | 0,184 |
| | | AX010400000000 | 40 | 3,9 | 4,4 | 700 | 5 | 15 | 10 | 160 | 50 | 0,187 |
| | | AX010450000000* | 45 | 4,1 | 4,6 | 830 | 4 | 12 | 10 | 180 | 50 | 0,234 |
| | | AX010500000000 | 50 | 4,3 | 4,8 | 950 | 4 | 12 | 10 | 200 | 50 | 0,257 |
| | | AX010515000000* | 51,5 | 4,3 | 4,8 | 980 | 4 | 12 | 10 | 200 | 50 | 0,264 |
| | | AX010520000000 | 50,8 | 4,3 | 4,8 | 970 | 4 | 12 | 10 | 200 | 50 | 0,261 |
| | | AX010550000000* | 55 | 4,4 | 5 | 1080 | 4 | 12 | 9 | 220 | 50 | 0,374 |
| | | AX010570000000* | 57 | 4,4 | 5 | 1120 | 4 | 12 | 9 | 230 | 50 | 0,386 |
| | | AX010600000000 | 60 | 4,5 | 5,1 | 1210 | 4 | 12 | 9 | 240 | 50 | 0,404 |
| | | AX010630000000 | 63,5 | 4,8 | 5,4 | 1370 | 4 | 12 | 9 | 260 | 50 | 0,428 |
| | | AX010650000000* | 65 | 4,9 | 5,6 | 1450 | 3 | 9 | 9 | 270 | 50 | 0,439 |
| | | AX010700000000 | 70 | 5 | 5,8 | 1560 | 3 | 9 | 9 | 280 | 50 | 0,588 |
| | | AX010760000000 | 76,2 | 5 | 6,1 | 1750 | 3 | 9 | 9 | 310 | 50 | 0,636 |
| | | AX010800000000 | 80 | 5,1 | 6,3 | 1860 | 3 | 9 | 9 | 320 | 50 (JP 30/50) | 0,667 |
| | | AX010900000000 | 90 | 5,3 | 6,6 | 2190 | 3 | 9 | 9 | 360 | 30 | 0,594 |
| | | AX011000000000 | 100 | 6,1 | 7,6 | 2830 | 3 | 9 | 9 | 410 | 30 | 0,885 |
| | | AX011020000000 | 102 | 6,1 | 7,6 | 2880 | 3 | 9 | 9 | 410 | 30 | 0,900 |
| | | AX011035000000* | 103,5 | 6,1 | 7,6 | 2920 | 3 | 9 | 9 | 410 | 30 | 0,912 |
| | | AX011050000000* | 105 | 6,1 | 7,7 | 2990 | 3 | 9 | 9 | 430 | 30 | 0,925 |
| | | AX011100000000 | 110 | 6,1 | 7,7 | 3090 | 3 | 9 | 9 | 450 | 30 | 0,963 |
| | | AX011200000000 | 120 | 6,3 | 7,9 | 3480 | 2,5 | 7,5 | 9 | 480 | 30 | 1,043 |
| | | AX011250000000* | 125 | 6,3 | 7,9 | 3620 | 2,5 | 7,5 | 9 | 510 | 30 | 1,081 |
| | | AX011270000000 | 127 | 6,3 | 7,9 | 3670 | 2,5 | 7,5 | 9 | 510 | 30 | 1,097 |
| | | AX011300000000* | 130 | 7 | 8,3 | 4080 | 2,5 | 7,5 | 8 | 530 | 30 | 1,126 |
| | | AX011330000000* | 133 | 7 | 8,3 | 4170 | 2,5 | 7,5 | 8 | 530 | 30 | 1,532 |
| | | AX011500000000 | 151,5 | 7,4 | 8,8 | 4990 | 2 | 6 | 8 | 610 | 20 | 1,353 |
| | | AX011520000000 | 152,4 | 7,4 | 8,8 | 5020 | 2 | 6 | 8 | 610 | 20 | 1,360 |
| | | AX011600000000* | 160 | 7,9 | 9,3 | 5500 | 2 | 6 | 7 | 660 | 20 | 1,429 |
| | | AX012000000000* | 200 | 11 | 12,3 | 9670 | 1,5 | 4,5 | 7 | 850 | 10 | 1,797 |
| | | AX012030000000* | 203,2 | 11 | 12,3 | 9810 | 1,5 | 4,5 | 7 | 850 | 10 | 1,822 |
| | | AX012500000000* | 250 | 11 | 12,8 | 12270 | 1,2 | 3,7 | 7 | 1500 | tramo 10 m/ straight | 0,760 |
| | | AX012540000000* | 254 | 11 | 12,8 | 12460 | 1,2 | 3,7 | 7 | 1500 | tramo 10 m/ straight | 0,782 |
| | | AX013000000000* | 300 | 11,5 | 13,3 | 15350 | 1 | 3 | 5 | 1800 | tramo 10 m/ straight | 1,067 |
| | | AX013050000000* | 304,8 | 11,5 | 13,3 | 15590 | 1 | 3 | 5 | 1800 | tramo 10 m/ straight | 1,098 |

JP en stock
available on stock

3,2-11,5

+60°C
-25°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



APOLLO NL1 (cód. A1) p.69

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

APOLLO NL1



(ES) Tubo de PVC-P muy elástico de color gris con espiral de PVC rígido antichoque de color celeste. Fórmula especial específica para mantener una alta flexibilidad, incluso a bajas temperaturas. Estructura con espiral a vista, consiente la reducción de la fricción durante su desplazamiento. Completamente liso al interno y ligeramente corrugado al externo, resiste a los agentes atmosféricos y a numerosas substancias químicas. Versión antiestática con hilo de cobre (cód.A1 02) disponible bajo pedido.

- Óptimo para aspiración y paso de líquidos de aguas residuales, líquidos industriales, especialmente eficaz para su uso en camiones cisternas gracias a sus propiedades físico-mecánicas.

(EN) Grey PVC-P hose manufactured with superelastic material and reinforced with a light blue, anti-shock rigid PVC spiral. Special formulation conceived for keeping high flexibility even at low temperatures. Its exposed spiral allows less resistance to dragging. Inside smooth and corrugated outside, it resists to weathering and to most chemicals. The AS version with copper wire is available on request (Cod. A1 02).

- In waste management and agriculture, it represents an excellent solution for suction and discharge of waste water, slurry and liquids; particularly suitable to be used on tank trucks thanks to its physical-mechanical features.

CÓD. A1
Ø mm 25-203

Espiral a vista de PVC rígido antichoque
Exposed anti-shock rigid PVC spiral

Tubo en PVC-P
PVC-P hose



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|--|-----------------|--------|--------------|--------------|--------|------|------|--------------------|----------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | m ² | m | m ³ |
| | | A1010254000000* | 25,4 | 2,7 | 3,8 | 340 | 5 | 15 | 8 | 130 | 50 | 0,084 |
| | | A1010320000000* | 31,8 | 3 | 4,3 | 500 | 5 | 15 | 8 | 130 | 50 | 0,129 |
| | | A1010380000000* | 38,1 | 3,3 | 4,8 | 650 | 4,2 | 12,5 | 8 | 140 | 50 | 0,183 |
| | | A1010390000000* | 39 | 3,3 | 4,8 | 670 | 4,2 | 12,5 | 8 | 140 | 50 | 0,187 |
| | | A1010400000000* | 40 | 3,3 | 4,8 | 680 | 4,2 | 12,5 | 8 | 140 | 50 | 0,190 |
| | | A1010500000000* | 50 | 3,6 | 5,3 | 940 | 3,5 | 10,5 | 8 | 180 | 50 | 0,262 |
| | | A1010515000000* | 51,5 | 3,6 | 5,3 | 970 | 3,5 | 10,5 | 8 | 180 | 50 | 0,268 |
| | | A1010520000000* | 50,8 | 3,6 | 5,3 | 950 | 3,5 | 10,5 | 8 | 180 | 50 | 0,265 |
| | | A1010570000000* | 57 | 3,8 | 5,6 | 1140 | 3 | 9 | 8 | 205 | 50 | 0,393 |
| | | A1010600000000* | 60 | 3,9 | 5,8 | 1260 | 3 | 9 | 8 | 230 | 50 | 0,412 |
| | | A1010630000000* | 63,5 | 3,9 | 5,8 | 1320 | 3 | 9 | 8 | 230 | 50 | 0,433 |
| | | A1010650000000* | 65 | 4,2 | 5,9 | 1410 | 3 | 9 | 8 | 240 | 50 | 0,442 |
| | | A1010760000000* | 76,2 | 4,2 | 6,2 | 1620 | 3 | 9 | 8 | 290 | 50 | 0,638 |
| | | A1010777000000* | 77,7 | 4,2 | 6,2 | 1650 | 3 | 9 | 8 | 295 | 50 | 0,649 |
| | | A1010800000000* | 80 | 4,3 | 6,6 | 1740 | 2,5 | 7,5 | 8 | 300 | 30 | 0,403 |
| | | A1010900000000* | 90 | 4,4 | 6,8 | 2020 | 2,5 | 7,5 | 8 | 340 | 30 | 0,597 |
| | | A1011000000000* | 100 | 4,8 | 7,7 | 2530 | 2 | 6 | 8 | 380 | 30 | 0,665 |
| | | A1011020000000* | 102 | 4,8 | 7,7 | 2580 | 2 | 6 | 7 | 380 | 30 | 0,676 |
| | | A1011050000000* | 105 | 4,9 | 7,7 | 2670 | 2 | 6 | 7 | 395 | 30 | 0,925 |
| | | A1011100000000* | 110 | 5,1 | 7,8 | 2830 | 2 | 6 | 7 | 415 | 30 | 0,965 |
| | | A1011200000000* | 120 | 5,1 | 8,1 | 3190 | 2 | 6 | 7 | 450 | 30 | 1,046 |
| | | A1011270000000* | 127 | 5,2 | 8,2 | 3430 | 2 | 6 | 7 | 500 | 30 | 1,101 |
| | | A1011500000000* | 151,5 | 6,1 | 9,4 | 4800 | 1,5 | 4,5 | 7 | 630 | 20 | 1,308 |
| | | A1011520000000* | 152,4 | 6,1 | 9,4 | 4830 | 1,5 | 4,5 | 7 | 630 | 20 | 1,315 |
| | | A1011600000000* | 160 | 6,5 | 10,2 | 5320 | 1,3 | 4 | 6 | 750 | 20 | 1,443 |
| | | A1012000000000* | 200 | 8,3 | 12,5 | 8580 | 1 | 3 | 6 | 900 | 10 | 1,800 |
| | | A1012030000000* | 203,2 | 8,3 | 12,5 | 8710 | 1 | 3 | 6 | 900 | 10 | 1,826 |

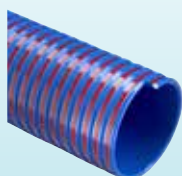
2,7-8,3

+60°C
-25°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



APOLLO NL1 OIL (cód. A1 09) p.61



APOLLO SE (cód. AX) p.68

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

APOLLO SUPERFLEX

PVC / NBR

ES Tubo de PVC/NBR de color negro, reforzado con espiral de PVC rígido antichoque. Fórmula especial específica para climas muy extremos que lo convierten en un tubo mejor que otros análogos en PVC usados comunmente. Versión antiestática con hilo de cobre (cód. AS 02) disponible bajo pedido.

• Excelente en agricultura y tratamiento de aguas residuales, para aspiración de residuos y descarga de aguas negras, aspiración e impulsión de líquidos incluso a temperaturas muy bajas; utilizado en camiones cisternas.

EN Black PVC/NBR hose, reinforced with an anti-shock rigid PVC spiral. Special formulation conceived for keeping flexibility at extreme temperatures, better than similar PVC hoses commonly used. AS version with copper wire available on request (Cod. AS 02).

• Waste management and agriculture: suction and discharge of waste water and liquids; usually used on tank trucks.

CÓD. AS
Ø mm 20-203

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-NBR
PVC-NBR hose



| FICHA TÉCNICA - TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|--|-----------------|--------|--------------|--------------|--------|------|------|--------------------|----------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | m ³ | m | m ³ |
| | | AS010200000000* | 20 | 3,2 | 3,6 | 300 | 5 | 15 | 10 | 80 | 50 | 0,070 |
| | | AS010250000000 | 25 | 3,4 | 3,9 | 400 | 5 | 15 | 10 | 80 | 50 | 0,084 |
| | | AS010300000000* | 30 | 3,9 | 4,3 | 550 | 5 | 15 | 10 | 100 | 50 | 0,124 |
| | | AS010320000000 | 31,8 | 3,9 | 4,3 | 580 | 5 | 15 | 10 | 105 | 50 | 0,129 |
| | | AS010350000000* | 35 | 3,9 | 4,4 | 630 | 4,3 | 13 | 10 | 115 | 50 | 0,140 |
| | | AS010380000000 | 38,1 | 3,9 | 4,4 | 680 | 4,3 | 13 | 10 | 125 | 50 | 0,180 |
| | | AS010400000000* | 40 | 3,9 | 4,4 | 710 | 4 | 12 | 10 | 130 | 50 | 0,187 |
| | | AS010450000000* | 45 | 4,1 | 4,6 | 840 | 4 | 12 | 10 | 145 | 50 | 0,208 |
| | | AS010500000000* | 50 | 4,3 | 4,8 | 960 | 3,3 | 10 | 10 | 160 | 50 | 0,257 |
| | | AS010515000000* | 51,5 | 4,3 | 4,8 | 990 | 3,3 | 10 | 10 | 160 | 50 | 0,264 |
| | | AS010520000000 | 50,8 | 4,3 | 4,8 | 980 | 3,3 | 10 | 10 | 160 | 50 | 0,261 |
| | | AS010550000000* | 55 | 4,4 | 5 | 1090 | 3,3 | 10 | 9 | 180 | 50 | 0,374 |
| | | AS010570000000* | 57 | 4,4 | 5 | 1130 | 3,3 | 10 | 9 | 190 | 50 | 0,386 |
| | | AS010600000000* | 60 | 4,5 | 5,1 | 1220 | 3,3 | 10 | 9 | 195 | 50 | 0,404 |
| | | AS010630000000 | 63,5 | 4,8 | 5,4 | 1380 | 3,3 | 10 | 9 | 210 | 50 | 0,428 |
| | | AS010650000000* | 65 | 4,9 | 5,6 | 1460 | 3 | 9 | 9 | 210 | 50 | 0,439 |
| | | AS010700000000* | 70 | 5 | 5,8 | 1570 | 3 | 9 | 9 | 225 | 50 | 0,470 |
| | | AS010750000000* | 75 | 5 | 6,1 | 1740 | 3 | 9 | 9 | 250 | 50 | 0,753 |
| | | AS010760000000 | 76,2 | 5 | 6,1 | 1760 | 3 | 9 | 9 | 250 | 50 | 0,764 |
| | | AS010800000000* | 80 | 5,1 | 6,3 | 1880 | 2,7 | 8 | 9 | 260 | 50 | 0,800 |
| | | AS010900000000* | 90 | 5,3 | 6,6 | 2210 | 2,5 | 7,5 | 9 | 300 | 30 | 0,743 |
| | | AS011000000000* | 100 | 6,1 | 7,6 | 2850 | 2,2 | 6,5 | 9 | 330 | 30 | 0,829 |
| | | AS011020000000 | 102 | 6,1 | 7,6 | 2910 | 2,2 | 6,5 | 9 | 335 | 30 | 0,844 |
| | | AS011050000000* | 105 | 6,1 | 7,7 | 3020 | 2 | 6 | 9 | 350 | 30 | 0,867 |
| | | AS011100000000* | 110 | 6,1 | 7,7 | 3120 | 2 | 6 | 9 | 360 | 30 | 0,963 |
| | | AS011200000000* | 120 | 6,3 | 7,9 | 3510 | 1,8 | 5,5 | 9 | 390 | 30 | 1,391 |
| | | AS011270000000 | 127 | 6,3 | 7,9 | 3700 | 1,8 | 5,5 | 9 | 410 | 30 | 1,462 |
| | | AS011300000000* | 130 | 7 | 8,3 | 4120 | 1,8 | 5,5 | 8 | 420 | 30 | 1,501 |
| | | AS011500000000* | 151,5 | 7,4 | 8,8 | 5030 | 1,5 | 4,5 | 8 | 500 | 20 | 1,299 |
| | | AS011520000000 | 152,4 | 7,4 | 8,8 | 5060 | 1,5 | 4,5 | 8 | 500 | 20 | 1,306 |
| | | AS011600000000* | 160 | 7,9 | 9,3 | 5550 | 1,5 | 4,5 | 7 | 540 | 20 | 1,372 |
| | | AS012000000000* | 200 | 11 | 12,3 | 9750 | 1,2 | 3,5 | 7 | 700 | 10 | 0,898 |
| | | AS012030000000* | 203,2 | 11 | 12,3 | 9900 | 1,2 | 3,5 | 7 | 700 | 10 | 0,911 |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



APOLLO SUPERFLEX 2 (cód. SF) p.71

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

APOLLO SUPERFLEX 2



ES Tubo de PVC/NBR de color negro, reforzado con espiral de PVC rígido antichoque gris. Formulación específica para climas muy rígidos que lo convierten en un tubo mejor que otros análogos en PVC usados comunmente. Estructura con espiral a vista que garantiza un deslizamiento fácil sobre el terreno. Versión antiestática con hilo de cobre (cód. SF 02) disponible bajo pedido.

- Óptimo para aspiración y impulsión de líquidos en general y especialmente para la aspiración y descarga de aguas residuales, incluso a temperaturas muy bajas.

EN PVC/NBR hose reinforced with a grey anti-shock rigid PVC spiral. Its particular mixed rubber nitrilic formulation gives it a high flexibility at extreme low temperatures. Its profile with a slightly protruding spiral guarantees an easy dragging on the ground and an easy and safe connection. AS version with copper wire on request (Cod. SF 02).

- Suction and delivery of liquids and waste water in general; ideal to be used on tank trucks, even at extremely low temperatures.




CÓD. SF Ø mm 50,8-152

Espiral de PVC rígido antichoque ligeramente a vista
Slightly exposed anti-shock rigid PVC spiral

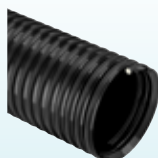


Tubo en PVC-NBR
PVC-NBR hose

| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|---------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------------|--------------|--------|------|------|--------------------|----------------|------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | mm | g/m | bar | bar | m H ₂ O | m ² | m | m ³ |
|  en stock available on stock | SF010520000000 | 50,8 | 4,4 | 4,9 | 970 | 3,3 | 10 | 7 | 160 | 50 | 0,262 |
| | SF010550000000* | 55 | 4,6 | 5,1 | 1100 | 3,3 | 10 | 7 | 160 | 50 | 0,282 |
| | SF010600000000* | 60 | 4,8 | 5,3 | 1260 | 3 | 9 | 7 | 200 | 50 | 0,407 |
| | SF010630000000 | 63,5 | 4,9 | 5,5 | 1380 | 3 | 9 | 7 | 210 | 50 | 0,429 |
| | SF010650000000* | 65 | 5 | 5,6 | 1440 | 3 | 9 | 7 | 210 | 50 | 0,439 |
| | SF010700000000* | 70 | 5,1 | 5,7 | 1530 | 3 | 9 | 7 | 225 | 50 | 0,469 |
| | SF010760000000 | 76,2 | 5,1 | 5,8 | 1670 | 3 | 9 | 7 | 250 | 50 | 0,632 |
| | SF010800000000 | 80 | 5,1 | 6,8 | 1930 | 2,5 | 7,5 | 7 | 270 | 50 | 0,674 |
| | SF010900000000 | 90 | 5,2 | 7 | 2220 | 2,5 | 7,5 | 7 | 300 | 30 | 0,599 |
| | SF011020000000 | 102 | 5,9 | 7,6 | 2770 | 2,2 | 6,5 | 6 | 335 | 30 | 0,675 |
| | SF011050000000 | 105 | 6 | 7,6 | 2870 | 2,2 | 6,5 | 6 | 335 | 30 | 0,692 |
| | SF011100000000 | 110 | 6,1 | 7,6 | 2990 | 2 | 6 | 6 | 360 | 30 | 0,721 |
| | SF011270000000 | 127 | 6,3 | 7,8 | 3540 | 1,8 | 5,5 | 6 | 410 | 30 | 1,095 |
| | SF011520000000 | 152,4 | 7,4 | 9 | 5000 | 1,5 | 4,5 | 6 | 500 | 20 | 1,309 |



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



APOLLO SUPERFLEX (cód. AS) p.70

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% umidity.

SPIRALPRESS WT



ES Tubo transparente de PVC-P con espiral de PVC rígido antichoque de color naranja y refuerzo textil. Interior liso y exterior corrugado. La pared transparente favorece una mejor identificación de las substancias transportadas, mientras que la espiral sobresaliente, permite una menor fricción durante las operaciones de arrastre. El refuerzo textil, permite una mayor resistencia a la presión. Ligero y maneable. El tubo es idóneo para aplicaciones que requieran una alta resistencia a presiones elevadas. Pared y espiral son de grado alimentario, según la UE 10/2011 (clases A, B, C, D1). Espiral disponible bajo pedido para facilitar el racorado con abrazaderas (cód. SC WT).

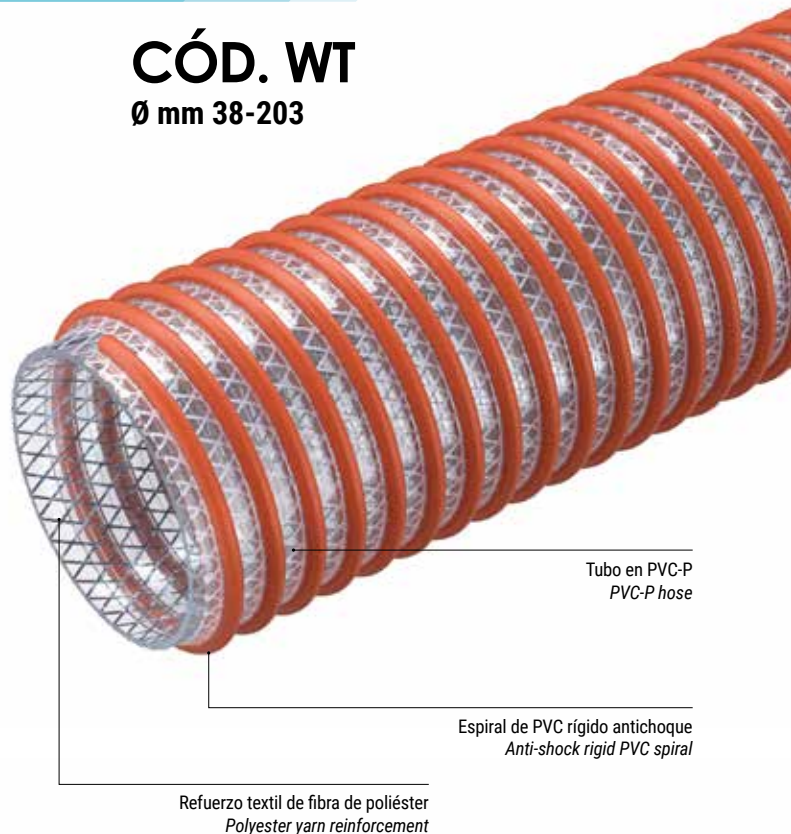
• Solución ideal para la aspiración y transporte de agua, incluso a presiones elevadas, y en condiciones extremas, en los sistemas de pompas y de water discharge. Para trasvase de pescado y piscifactorias.

EN Transparent hose made by a special plasticized vinyl compound with an orange anti-shock rigid PVC spiral and polyester textile reinforcement. Completely smooth inside and with an external PVC corrugated spiral. The clear wall is intended to easily detect the media transported as well as the exposed spiral allows less resistance to dragging. The textile braid reinforcement allows for a higher working pressure. Light and flexible, the hose is suitable for applications where a good resistance to high pressures is required. Food grade wall and spiral, according to EU 10/2011 (classes A, B, C, D1). Banding coil available on request (Cod. SC WT).

• Excellent solution for suction and delivery of water, even at high pressures and in severe conditions. The larger sizes are ideally suited for fish handling, on the rental pumping systems and for water discharge.

CÓD. WT

Ø mm 38-203



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | MIN ESP. | MAX ESP. | PESO | P.T. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME | LG. ESPIRAL |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|--------|----------|----------|------|------|--------------------|--------------|------------|----------------|--------------------|
| | CODE | mm | mm | mm | mm | g/m | bar | m H ₂ O | BENDING | COIL LGTH. | m ³ | BANDING COIL LGTH. |
| SC WT p.125 Espiral naranja / Orange banding coil ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIE SPIRALPRESS OIL (cód. SQ) p.65 SPIRALPRESS ENO (cód. BS EN) p.111 | WT010380000000 | 38,1/ 1 1/2" | 52,3 | 3 | 7,1 | 790 | 8 | 9,5 | 90 | 30 | 0,134 | 153 |
| | WT010400000000 | 40 | 54,2 | 3 | 7,1 | 805 | 8 | 9,5 | 100 | 30 | 0,139 | 152 |
| | WT010500000000 | 50 | 65,4 | 3 | 7,7 | 1085 | 7 | 9,5 | 160 | 30 | 0,251 | 180 |
| | WT010508000000 | 50,8/ 2" | 66,2 | 3 | 7,7 | 1100 | 7 | 9,5 | 160 | 30 | 0,254 | 180 |
| | WT010600000000 | 60 | 76,8 | 3 | 8,4 | 1230 | 7 | 9,5 | 180 | 30 | 0,332 | 203 |
| | WT010760000000 | 76,2/ 3" | 95,8 | 3,5 | 9,8 | 1900 | 6 | 9 | 200 | 30 | 0,414 | 225 |
| | WT010800000000 | 80 | 100,8 | 3,5 | 10,4 | 2180 | 6 | 9 | 210 | 30 | 0,581 | 225 |
| | WT011000000000 | 100 | 120,8 | 3,5 | 10,4 | 2580 | 6 | 9 | 300 | 30 | 0,928 | 240 |
| | WT011020000000 | 101,6/ 4" | 122,6 | 3,5 | 10,5 | 2655 | 6 | 9 | 300 | 30 | 0,942 | 240 |
| | WT011270000000 | 127/ 5" | 152 | 5 | 12,5 | 3965 | 5 | 9 | 380 | 30 | 1,556 | 292,5 |
| | WT011520000000 | 152,4/ 6" | 180 | 5 | 13,8 | 5225 | 5 | 8 | 450 | 20 | 1,44 | 322,5 |
| | WT012030000000 | 203,2/ 8" | 236 | 6 | 16,4 | 8245 | 4 | 8 | 600 | 10 | 1,888 | 375 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% humidity.

IPL se reserva el derecho a realizar cambios en la información aquí contenida y/o a interrumpir un producto sin previo aviso. We reserve the right either to alter specifications and discontinue products without prior notice.

PLUTONE PW



ES Tubo de color negro con raya amarilla, fabricado en un compuesto especial de PVC-P, con refuerzo textil de poliéster y una espiral de acero. Muy flexible, liso y manejable, resistente a bajas temperaturas. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra.

• Aspiración y transporte de agua y líquidos; utilizado en agricultura para el riego.

EN Black PVC-P hose with yellow stripe, with steel spiral and polyester textile reinforcement. Smooth, flexible and easy to handle, it resists at low temperatures. It can be made conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

• Suction and discharge of water and liquids; used in agriculture for irrigation.

CÓD. PW
Ø mm 20-102



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|--|-----------------|--------|--------|--------|------|------|--------------------|----------------|------------|----------------|
| | | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | g/m | bar | bar | m H ₂ O | m ² | m | m ³ |
| | | PW010200029000* | 20 | 29 | 475 | 14 | 42 | 10 | 80 | 60 | 0,106 |
| | | PW010250035000 | 25 | 35 | 655 | 12 | 36 | 10 | 100 | 60 | 0,146 |
| | | PW010300040000 | 30 | 40 | 765 | 11 | 33 | 9 | 120 | 60 | 0,184 |
| | | PW010320043000* | 32 | 43 | 890 | 11 | 33 | 9 | 130 | 60 | 0,214 |
| | | PW010350046000* | 35 | 46 | 945 | 11 | 33 | 9 | 140 | 60 | 0,225 |
| | | PW010380049000* | 38 | 49 | 1035 | 10 | 30 | 9 | 150 | 30 | 0,198 |
| | | PW010400051000 | 40 | 51 | 1080 | 10 | 30 | 9 | 160 | 30 | 0,202 |
| | | PW010450058000* | 45 | 58 | 1505 | 10 | 30 | 9 | 180 | 30 | 0,241 |
| | | PW010500063000 | 50 | 63 | 1685 | 10 | 30 | 8 | 250 | 30 | 0,286 |
| | | PW010600074000* | 60 | 74 | 2115 | 10 | 30 | 8 | 300 | 30 | 0,365 |
| | | PW010630077000* | 63 | 77 | 2210 | 10 | 30 | 8 | 320 | 30 | 0,379 |
| | | PW010760091000* | 76 | 91 | 2730 | 10 | 30 | 7 | 380 | 30 | 0,603 |
| | | PW010800095000* | 80 | 95 | 2825 | 8 | 24 | 7 | 400 | 20 | 0,498 |
| | | PW011020118000* | 102 | 118 | 3890 | 7 | 21 | 7 | 510 | 20 | 0,801 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% humidity.

IPL se reserva el derecho a realizar cambios en la información aquí contenida y/o a interrumpir un producto sin previo aviso. We reserve the right either to alter specifications and discontinue products without prior notice

ES Tubo de PVC-P de color azul claro con espiral de refuerzo de PVC rígido antichoque color marfil; superficie interna lisa y externa semi lisa; más robusto que el tubo Apollo, mantiene una buena flexibilidad incluso a bajas temperaturas. Muy resistente al aplastamiento, a la abrasión, a los agentes atmosféricos y a numerosas substancias químicas. Versión antiestática con hilo de cobre (cód. GI 16) disponible según pedido.

- Agricultura, industria, descarga de aguas residuales: aspiración e impulsión de líquidos; se utiliza en camiones cisterna.

EN Light blue PVC-P hose reinforced with an anti-shock rigid PVC spiral. Better than Apollo hose, it is made with a special formulation particularly suitable to be used at low temperatures. Inside surface smooth, slightly corrugated outside. Strong and flexible, resistant to crushing, abrasion, weathering and to most chemicals. AS version with copper wire available on request (Cod. GI 16).

- Suction and delivery of water, slurry, mud, mixtures of wood, acids, latex, grains and other materials. Used in agriculture and industry. Particularly suitable to be used on tank trucks.

CÓD. GI 06

Ø mm 25-305

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|-----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|----------------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | GI060250000000* | 25 | 4,39 | 4,7 | 530 | 8 | 24 | 10 | 130 | 50 | 0,110 |
| | GI060300000000* | 30 | 4,49 | 4,8 | 640 | 8 | 24 | 10 | 150 | 50 | 0,127 |
| | GI060320000000* | 31,8 | 4,49 | 4,8 | 670 | 8 | 24 | 10 | 160 | 50 | 0,132 |
| | GI060350000000* | 35 | 4,5 | 4,9 | 720 | 8 | 24 | 10 | 170 | 50 | 0,143 |
| | GI060380000000* | 38,1 | 4,5 | 4,9 | 780 | 7 | 21 | 10 | 200 | 50 | 0,184 |
| | GI060400000000* | 40 | 4,5 | 4,9 | 820 | 7 | 21 | 10 | 210 | 50 | 0,191 |
| | GI060450000000* | 45 | 4,8 | 5,2 | 980 | 7 | 21 | 10 | 230 | 50 | 0,248 |
| | GI060500000000* | 50 | 5,2 | 5,6 | 1180 | 7 | 21 | 10 | 260 | 50 | 0,264 |
| | GI060520000000* | 50,8 | 5,2 | 5,6 | 1190 | 7 | 21 | 10 | 260 | 50 | 0,268 |
| | GI060550000000* | 55 | 5,5 | 5,9 | 1370 | 6 | 18 | 10 | 280 | 50 | 0,385 |
| | GI060600000000* | 60 | 5,7 | 6,2 | 1570 | 6 | 18 | 10 | 320 | 50 | 0,417 |
| | GI060630000000* | 63,5 | 5,7 | 6,2 | 1650 | 5 | 15 | 10 | 330 | 50 | 0,437 |
| | GI060700000000* | 70 | 5,8 | 6,3 | 1790 | 5 | 15 | 10 | 360 | 50 | 0,714 |
| | GI060760000000* | 76,2 | 5,8 | 6,3 | 1940 | 4,5 | 13,5 | 10 | 400 | 50 | 0,767 |
| | GI060800000000* | 80 | 6,1 | 6,6 | 2120 | 4,5 | 13,5 | 10 | 430 | 30 | 0,671 |
| | GI060900000000* | 90 | 6,4 | 6,9 | 2500 | 4,5 | 13,5 | 10 | 470 | 30 | 0,747 |
| | GI061000000000* | 100 | 7,3 | 7,9 | 3190 | 4 | 12 | 9 | 510 | 30 | 0,889 |
| | GI061020000000* | 102 | 7,3 | 7,9 | 3250 | 4 | 12 | 9 | 510 | 30 | 0,905 |
| | GI061050000000* | 105 | 7,3 | 7,9 | 3340 | 4 | 12 | 9 | 520 | 30 | 0,928 |
| | GI061100000000* | 110 | 7,4 | 8 | 3520 | 4 | 12 | 9 | 550 | 30 | 0,968 |
| | GI061200000000* | 120 | 7,5 | 8,1 | 3880 | 4 | 12 | 9 | 600 | 30 | 1,395 |
| | GI061270000000* | 127 | 7,5 | 8,1 | 4090 | 3,5 | 10,5 | 9 | 640 | 30 | 1,466 |
| | GI061500000000* | 151,5 | 9,2 | 10 | 6120 | 3 | 9 | 9 | 770 | 20 | 1,372 |
| | GI062000000000* | 200 | 10,9 | 12,6 | 9770 | 2 | 6 | 7 | 1000 | 10 | 2,180 |
| | GI062030000000* | 203,2 | 11 | 12,7 | 10020 | 2 | 6 | 7 | 1000 | 10 | 2,213 |
| | GI062500000000* | 250 | 11,4 | 13,2 | 12770 | 1,5 | 4,5 | 7 | 1700 | tramo 10 m/ straight | 0,764 |
| | GI062540000000* | 254 | 11,4 | 13,2 | 12960 | 1,5 | 4,5 | 7 | 1700 | tramo 10 m/ straight | 0,786 |
| | GI063000000000* | 300 | 11,7 | 13,6 | 15740 | 1 | 3 | 5 | 2200 | tramo 10 m/ straight | 1,071 |
| | GI063050000000* | 304,8 | 11,8 | 13,7 | 16130 | 1 | 3 | 5 | 2200 | tramo 10 m/ straight | 1,104 |

4,4-11,8

+60°C
-25°C

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

SATURNO L



ES Tubo de PVC-P de color verde transparente con espiral de refuerzo de PVC rígido antichoque de color marfil. Superficie interna lisa y superficie externa semilisa. Ligero y maneable. Muy resistente al aplastamiento, a los agentes atmosféricos y a numerosas substancias químicas.

- Para riego, aspiración y transporte de líquidos en general y soluciones usadas en el sector agrícola.

EN Transparent green PVC-P hose reinforced with an ivory anti-shock and crush resistant rigid PVC spiral. Inside surface smooth, light corrugation outside. Easy to handle and flexible, resistant to crushing, weathering and to most chemicals.

- Excellent in agriculture, for irrigation, suction and spreading of fertilisers, insecticides and liquids commonly used in the sector; suitable to be used on liquid manure spreaders.

CÓD. XL 01
Ø mm 19-200



Espirales de PVC rígido antichoque
Anti-shock rigid PVC spiral

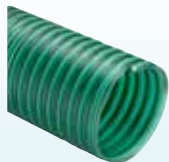
Tubo en PVC-P
PVC-P hose

| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--|-----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | | XL010190000000* | 19,1 | 2,2 | 2,9 | 200 | 5 | 15 | 6 | 110 | 50 | 0,046 |
| | | XL010200000000 | 20 | 2,2 | 2,9 | 210 | 5 | 15 | 6 | 110 | 50 | 0,048 |
| | | XL010220000000* | 22 | 2,3 | 3 | 240 | 5 | 15 | 6 | 130 | 50 | 0,061 |
| | | XL010250000000 | 25 | 2,3 | 3 | 270 | 5 | 15 | 6 | 140 | 50 | 0,078 |
| | | XL010255000000* | 25,5 | 2,3 | 3 | 280 | 5 | 15 | 6 | 140 | 50 | 0,079 |
| | | XL010300000000 | 30 | 2,3 | 3,1 | 330 | 5 | 15 | 6 | 170 | 50 | 0,116 |
| | | XL010320000000 | 31,8 | 2,4 | 3,2 | 360 | 5 | 15 | 6 | 180 | 50 | 0,122 |
| | | XL010325000000* | 32,5 | 2,4 | 3,2 | 370 | 5 | 15 | 6 | 180 | 50 | 0,124 |
| | | XL010350000000* | 35 | 2,5 | 3,3 | 410 | 5 | 15 | 6 | 195 | 50 | 0,133 |
| | | XL010380000000 | 38,1 | 2,6 | 3,4 | 460 | 5 | 15 | 6 | 210 | 50 | 0,172 |
| | | XL010390000000* | 39 | 2,6 | 3,4 | 470 | 5 | 15 | 6 | 215 | 50 | 0,176 |
| | | XL010400000000 | 40 | 2,6 | 3,5 | 490 | 5 | 15 | 6 | 220 | 50 | 0,180 |
| | | XL010450000000* | 45 | 2,7 | 3,6 | 570 | 5 | 15 | 6 | 250 | 50 | 0,234 |
| | | XL010500000000 | 50 | 3 | 4 | 710 | 5 | 15 | 6 | 270 | 50 | 0,251 |
| | | XL010520000000 | 50,8 | 3 | 4 | 720 | 5 | 15 | 6 | 270 | 50 | 0,254 |
| | | XL010550000000* | 55 | 3 | 4 | 780 | 5 | 15 | 6 | 310 | 50 | 0,363 |
| | | XL010570000000* | 57 | 3 | 4 | 800 | 5 | 15 | 6 | 310 | 50 | 0,374 |
| | | XL010600000000 | 60 | 3 | 4,2 | 870 | 5 | 15 | 6 | 330 | 50 | 0,394 |
| | | XL010630000000 | 63,5 | 3 | 4,2 | 920 | 5 | 15 | 6 | 350 | 50 | 0,414 |
| | | XL010650000000* | 65 | 3,1 | 4,3 | 970 | 5 | 15 | 6 | 360 | 50 | 0,636 |
| | | XL010700000000* | 70 | 3,2 | 4,5 | 1050 | 4 | 12 | 6 | 450 | 50 | 0,683 |
| | | XL010750000000* | 75 | 3,3 | 4,6 | 1160 | 4 | 12 | 6 | 500 | 50 | 0,727 |
| | | XL010760000000 | 76,2 | 3,3 | 4,6 | 1180 | 4 | 12 | 6 | 500 | 50 | 0,738 |
| | | XL010800000000 | 80 | 3,6 | 5 | 1350 | 4 | 12 | 6 | 550 | 50 | 0,778 |
| | | XL010900000000* | 90 | 4,2 | 6 | 1870 | 3 | 9 | 6 | 630 | 30 | 0,588 |
| | | XL011000000000 | 100 | 4,6 | 6,4 | 2210 | 3 | 9 | 6 | 710 | 30 | 0,866 |
| | | XL011020000000 | 102 | 4,6 | 6,4 | 2250 | 3 | 9 | 6 | 710 | 30 | 0,882 |
| | | XL011100000000* | 110 | 5 | 6,7 | 2560 | 3 | 9 | 6 | 720 | 30 | 1,264 |
| | | XL011200000000* | 120 | 5 | 6,8 | 2810 | 3 | 9 | 6 | 730 | 30 | 1,368 |
| | | XL011270000000* | 127 | 5,1 | 6,9 | 3030 | 3 | 9 | 6 | 740 | 30 | 1,442 |
| | | XL011500000000* | 151,5 | 5,9 | 7,8 | 4160 | 3 | 9 | 6 | 800 | 20 | 1,337 |
| | | XL011520000000* | 152,4 | 5,9 | 7,8 | 4180 | 3 | 9 | 6 | 800 | 20 | 1,344 |
| | | XL012000000000* | 200 | 6,5 | 10 | 6510 | 2 | 6 | 4,5 | 1000 | 10 | 1,760 |

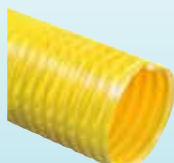
JP en stock
available on stock

2,2-6,5
+60°C
-10°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



SATURNO L SE (cód. XL 06) p.76



SATURNO YELLOW (cód. SY) p.106

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.
Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

ES Tubo de PVC-P verde transparente con espiral de refuerzo de PVC rígido antichoques de color marfil . Superficie interna lisa y superficie externa semilisa. Mantiene una buena flexibilidad incluso a bajas temperaturas. Ligero y maneable. Muy resistente al aplastamiento, a la abrasión, a los agentes atmosféricos y a numerosas sustancias químicas.

• En agricultura, excelente para el riego, aspiración y transporte de líquidos, especialmente apropiado para esparcidores de estiércol líquido. 3 versiones de color disponibles bajo pedido.

EN Transparent green PVC-P hose reinforced with an ivory, anti-shock and crush resistant rigid PVC spiral. Inside surface smooth, light corrugation outside. Very flexible even at low temperatures thanks to its special super elastic formulation. Strong and flexible, resistant to crushing, atmospheric agents and most chemicals.

• Excellent in agriculture, for irrigation and suction of liquids; suitable to be used on slurry machines. Different colour versions available on request.

CÓD. XL 06
Ø mm 19-203



Espiral de PVC rígido antichoques
Anti-shock rigid PVC spiral

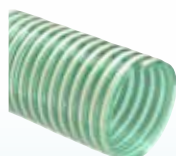
Tubo en PVC-P
PVC-P hose



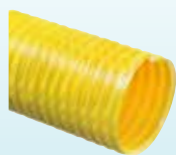
| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--|-----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| | | COVDE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | | XL060190000000* | 19,1 | 2,2 | 2,9 | 200 | 5 | 15 | 6 | 110 | 50 | 0,046 |
| | | XL060200000000 | 20 | 2,2 | 2,9 | 210 | 5 | 15 | 6 | 110 | 50 | 0,048 |
| | | XL060220000000* | 22 | 2,3 | 3 | 240 | 5 | 15 | 6 | 130 | 50 | 0,061 |
| | | XL060250000000 | 25 | 2,3 | 3 | 270 | 5 | 15 | 6 | 140 | 50 | 0,078 |
| | | XL060255000000* | 25,5 | 2,3 | 3 | 270 | 5 | 15 | 6 | 140 | 50 | 0,079 |
| | | XL060300000000 | 30 | 2,3 | 3,1 | 320 | 5 | 15 | 6 | 170 | 50 | 0,116 |
| | | XL060320000000 | 31,8 | 2,4 | 3,2 | 360 | 5 | 15 | 6 | 180 | 50 | 0,122 |
| | | XL060325000000* | 32,5 | 2,4 | 3,2 | 370 | 5 | 15 | 6 | 180 | 50 | 0,124 |
| | | XL060350000000* | 35 | 2,5 | 3,3 | 400 | 5 | 15 | 6 | 195 | 50 | 0,133 |
| | | XL060380000000 | 38,1 | 2,6 | 3,4 | 450 | 5 | 15 | 6 | 210 | 50 | 0,172 |
| | | XL060390000000* | 39 | 2,6 | 3,4 | 460 | 5 | 15 | 6 | 215 | 50 | 0,176 |
| | | XL060400000000 | 40 | 2,6 | 3,5 | 480 | 5 | 15 | 6 | 220 | 50 | 0,180 |
| | | XL060450000000* | 45 | 2,7 | 3,6 | 560 | 5 | 15 | 6 | 250 | 50 | 0,226 |
| | | XL060500000000 | 50 | 3 | 4 | 700 | 5 | 15 | 6 | 270 | 50 | 0,251 |
| | | XL060520000000 | 50,8 | 3 | 4 | 710 | 5 | 15 | 6 | 270 | 50 | 0,254 |
| | | XL060515000000 | 51,5 | 3 | 4 | 720 | 5 | 15 | 6 | 270 | 50 | 0,257 |
| | | XL060515000050 | 51,5 | 3 | 4 | 720 | 5 | 15 | 6 | 270 | 50 | 0,257 |
| | | XL060550000000* | 55 | 3 | 4 | 760 | 5 | 15 | 6 | 310 | 50 | 0,363 |
| | | XL060570000000* | 57 | 3 | 4 | 790 | 5 | 15 | 6 | 310 | 50 | 0,374 |
| | | XL060600000000 | 60 | 3 | 4,2 | 860 | 5 | 15 | 6 | 330 | 50 | 0,394 |
| | | XL060630000000 | 63,5 | 3 | 4,2 | 910 | 5 | 15 | 6 | 350 | 50 | 0,414 |
| | | XL060650000000* | 65 | 3,1 | 4,3 | 960 | 5 | 15 | 6 | 360 | 50 | 0,424 |
| | | XL060700000000* | 70 | 3,2 | 4,5 | 1040 | 4 | 12 | 6 | 450 | 50 | 0,569 |
| | | XL060750000000* | 75 | 3,3 | 4,6 | 1140 | 4 | 12 | 6 | 500 | 50 | 0,606 |
| | | XL060760000000 | 76,2 | 3,3 | 4,6 | 1160 | 4 | 12 | 6 | 500 | 50 | 0,615 |
| | | XL060800000000 | 80 | 3,6 | 5 | 1330 | 4 | 12 | 6 | 550 | 50 | 0,648 |
| | | XL060800000036 | 80 | 3,6 | 5 | 1330 | 4 | 12 | 6 | 550 | 50 | 0,648 |
| | | XL060900000000* | 90 | 4,2 | 6 | 1840 | 3 | 9 | 6 | 630 | 30 | 0,588 |
| | | XL061000000000 | 100 | 4,6 | 6,4 | 2180 | 3 | 9 | 6 | 710 | 30 | 0,866 |
| | | XL061020000000 | 102 | 4,6 | 6,4 | 2220 | 3 | 9 | 6 | 710 | 30 | 0,882 |
| | | XL061100000000* | 110 | 5 | 6,7 | 2530 | 3 | 9 | 6 | 720 | 30 | 1,264 |
| | | XL061200000000* | 120 | 5 | 6,8 | 2770 | 3 | 9 | 6 | 730 | 30 | 1,368 |
| | | XL061250000000* | 125 | 5,1 | 6,9 | 2950 | 3 | 9 | 6 | 740 | 30 | 1,421 |
| | | XL061270000000* | 127 | 5,1 | 6,9 | 2990 | 3 | 9 | 6 | 740 | 30 | 1,442 |
| | | XL061500000000* | 151,5 | 5,9 | 7,8 | 4100 | 3 | 9 | 6 | 800 | 20 | 1,337 |
| | | XL061520000000* | 152,4 | 5,9 | 7,8 | 4120 | 3 | 9 | 6 | 800 | 20 | 1,344 |
| | | XL062000000000* | 200 | 6,5 | 10 | 6420 | 2 | 6 | 4,5 | 1000 | 10 | 1,760 |
| | | XL062030000000* | 203,2 | 6,5 | 10 | 6520 | 2 | 6 | 4,5 | 1000 | 10 | 1,786 |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



SATURNO L (cód. XL 01) p.75

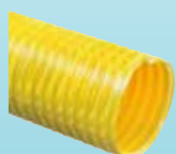


SATURNO YELLOW (cód. SY) p.106

2 VERSIONES DE COLOR
2 COLOUR VERSIONS



col. 27



col. 40

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

SATURNO AQUAPOOL



(ES) Tubo flexible de PVC-P de color blanco, reforzado con espiral de PVC rígido antichoque y antiplastamiento. Superficie interior completamente lisa para favorecer el flujo. Buena resistencia química, a la intemperie y al envejecimiento. Ligero, muy flexible y fácil de manejar.

- Aspiración y transporte de agua en los circuitos de depuración de piscinas y bañeras de hidromasaje en spas.

(EN) White PVC-P hose, reinforced with a crush-resistant and anti-shock rigid PVC spiral. Completely smooth inner surface to enhance the optimization of flow properties. Good chemical, weathering and ageing resistance. Lightweight, very flexible and easy to handle.

- Suction and transport of water in the treatment circuits of swimming pools and whirlpools at spas

CÓD. QP 01
Ø mm 20-55



Tubo en PVC-P
PVC-P hose

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



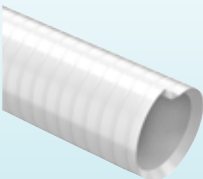
FICHA TÉCNICA · TECHNICAL DATA



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



SATURNO IDRO SE (cód. SI 06) p.78



NAUTILUS ODOR PROOF (cód. LU 01) p.79

| CÓDIGO | Ø INT. | Ø EST. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|---------------|--------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| CODE | Ø INT. | Ø OUT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOL. |
| | mm | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| QP0102000270* | 20 | 27 | 3,4 | 3,5 | 330 | 7 | 21 | 10 | 50 | 30 | 0,037 |
| QP0102500320* | 25 | 32 | 3,3 | 3,5 | 390 | 7 | 21 | 10 | 60 | 30 | 0,049 |
| QP0103180400* | 31,8 | 40 | 4 | 4,1 | 590 | 6 | 18 | 10 | 80 | 30 | 0,069 |
| QP0104300500* | 43 | 50 | 3,4 | 3,5 | 640 | 6 | 18 | 10 | 110 | 30 | 0,103 |
| QP0105500630* | 55 | 63 | 3,9 | 4 | 940 | 5 | 15 | 10 | 140 | 30 | 0,272 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

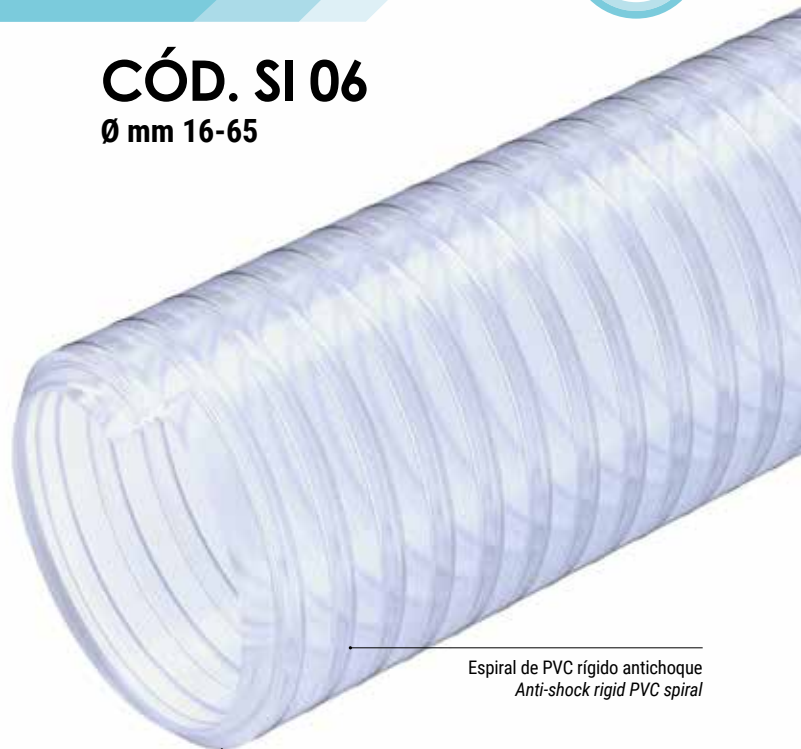
ES Tubo transparente de PVC-P con espiral de refuerzo de PVC rígido antichoques transparente. Superficie interna y externa perfectamente lisas para favorecer el paso del las substancias. Transparente para una fácil identificación. Muy robusto y flexible.

• Para aplicaciones que requieren resistencia y durabilidad; en el sector náutico, como manguera sanitaria, para la descarga de agua y líquidos.

EN Transparent PVC-P hose reinforced with a clear anti-shock rigid PVC spiral. Smooth inside and outside to ensure optimization of flow properties. Transparent for an easy detection. Strong and flexible.

• For heavy duty applications, where durability and resistance are required; used as sanitary hose on vessels.

CÓD. SI 06
Ø mm 16-65



Espiral de PVC rígido antichoques
Anti-shock rigid PVC spiral

Tubo en PVC-P
PVC-P hose



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| <p>ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES</p> <p>SATURNO AQUAPOL (cód. QP01) p.77</p> <p>NAUTILUS ODOR PROOF (cód. LU 01) p.79</p> | SI06016000000* | 16 | 3,3 | 3,4 | 250 | 6 | 18 | 10 | 40 | 30 | 0,030 | |
| | SI06020000000* | 20 | 3,3 | 3,4 | 300 | 6 | 18 | 10 | 50 | 30 | 0,037 | |
| | SI06025000000* | 25 | 3,4 | 3,5 | 370 | 6 | 18 | 10 | 60 | 30 | 0,049 | |
| | SI06030000000* | 30 | 3,4 | 3,5 | 430 | 5 | 15 | 10 | 80 | 30 | 0,080 | |
| | SI06032000000* | 31,8 | 3,4 | 3,5 | 460 | 5 | 15 | 10 | 80 | 30 | 0,084 | |
| | SI06038000000* | 38,1 | 3,4 | 3,5 | 540 | 5 | 15 | 10 | 100 | 30 | 0,097 | |
| | SI06040000000* | 40 | 3,4 | 3,5 | 560 | 5 | 15 | 10 | 100 | 30 | 0,102 | |
| | SI06045000000* | 45 | 3,9 | 4 | 730 | 5 | 15 | 10 | 110 | 30 | 0,153 | |
| | SI06050000000* | 50 | 3,9 | 4 | 810 | 5 | 15 | 10 | 130 | 30 | 0,167 | |
| | SI06051500000* | 51,5 | 3,9 | 4 | 830 | 5 | 15 | 10 | 130 | 30 | 0,171 | |
| | SI06065000000* | 65 | 3,9 | 4,1 | 1040 | 4 | 12 | 10 | 160 | 30 | 0,316 | |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

NAUTILUS ODOR PROOF



(ES) Tubo de color blanco de PVC-P, con espiral de refuerzo de PVC rígido antichoques. Formulación especial a prueba de olores. Superficie interna y externa perfectamente lisas para favorecer el paso de las substancias. Resistente al aplastamiento y muy flexible.

- Aspiración y transporte de líquidos residuales, en instalaciones sanitarias a bordo de buques.

(EN) White PVC-P hose reinforced with an anti-shock rigid PVC spiral. Special odourless formulation against permeation of smells. Inside and outside completely smooth to enhance the flow properties; crush proof and very flexible.

- Waste disposal, suction and discharge of sanitary liquids on vessels.




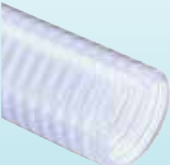
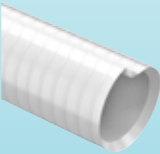
CÓD. LU 01
Ø mm 16-50,8



Tubo en PVC-P
 PVC-P hose

Espiral de PVC rígido antichoque
 Anti-shock rigid PVC spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
|  en stock available on stock   ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES  SATURNO IDRO SE (cód. SI 06) p.78  SATURNO AQUAPOL (cód. QP01) p.77 | LU010160021000* | 16 | 2,4 | 2,6 | 180 | 8 | 24 | 9 | 78 | 30 | 0,031 |
| | LU010200025000 | 20 | 2,4 | 2,6 | 220 | 8 | 24 | 9 | 78 | 30 | 0,036 |
| | LU010250031000 | 25 | 2,9 | 3,1 | 340 | 6 | 18 | 9 | 102 | 30 | 0,056 |
| | LU010300036500* | 30 | 3 | 3,2 | 420 | 6 | 18 | 9 | 102 | 30 | 0,092 |
| | LU010320038500* | 31,8 | 3 | 3,2 | 440 | 6 | 18 | 9 | 102 | 30 | 0,096 |
| | LU010380046000 | 38,1 | 3,9 | 4,1 | 690 | 6 | 18 | 9 | 190 | 30 | 0,119 |
| | LU010400048000* | 40 | 3,9 | 4,1 | 720 | 6 | 18 | 9 | 190 | 30 | 0,123 |
| | LU010500061000 | 50 | 5,3 | 5,5 | 1250 | 6 | 18 | 9 | 190 | 30 | 0,264 |
| | LU010508061800* | 50,8 | 5,3 | 5,5 | 1270 | 6 | 18 | 9 | 190 | 30 | 0,267 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
 *Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
 The technical data here reported have been measured at 23°C with 50% humidity.

ES Tubo transparente de PVC-P con espiral de refuerzo de PVC rígido antichoque color marfil; superficie interna lisa, y superficie externa semilisa; óptima flexibilidad y resistencia a la carga de trabajo. Versión antiestática con hilo de cobre (cód. NX 02) disponible según pedido.

• Aspiración y suministro de líquidos de uso común en la agricultura, en camiones pulverizadores y vehículos esparcidos de estiércol.

EN Transparent PVC-P hose with an ivory anti-shock rigid PVC spiral; smooth inside to ensure optimization of flow properties, slightly corrugated outside. Very flexible, even at low temperatures and resistant to loads. AS version with copper wire available on request (Cod. NX 02).

• Suction and delivery of liquids commonly used in agriculture, on sprayer trucks and manure spreader vehicles.



CÓD. NX NF

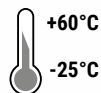
Ø mm 13-300

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose

| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--|----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|----------------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | | NXNF013000000* | 13 | 2,3 | 2,5 | 140 | 3,5 | 10,5 | 8 | 75 | 50 | 0,032 |
| | | NXNF016000000* | 16 | 2,5 | 2,8 | 180 | 3,3 | 10 | 8 | 85 | 50 | 0,039 |
| | | NXNF019000000 | 19,1 | 2,7 | 3 | 230 | 3,3 | 10 | 8 | 95 | 50 | 0,054 |
| | | NXNF020000000 | 20 | 2,7 | 3 | 240 | 3,3 | 10 | 8 | 95 | 50 | 0,056 |
| | | NXNF022000000* | 22 | 2,7 | 3 | 260 | 3,3 | 10 | 8 | 100 | 50 | 0,071 |
| | | NXNF025000000 | 25 | 2,7 | 3 | 300 | 3,3 | 10 | 8 | 110 | 50 | 0,078 |
| | | NXNF030000000* | 30 | 2,7 | 3 | 350 | 3,3 | 10 | 8 | 130 | 50 | 0,115 |
| | | NXNF032000000 | 31,8 | 2,8 | 3,1 | 390 | 3,3 | 10 | 8 | 140 | 50 | 0,122 |
| | | NXNF035000000* | 35 | 2,8 | 3,5 | 440 | 3,3 | 10 | 7 | 150 | 50 | 0,134 |
| | | NXNF038000000 | 38,1 | 3 | 3,8 | 520 | 3,3 | 10 | 7 | 160 | 50 | 0,146 |
| | | NXNF040000000 | 40 | 3 | 3,8 | 550 | 3,3 | 10 | 7 | 170 | 50 | 0,183 |
| | | NXNF045000000* | 45 | 3,2 | 4,1 | 670 | 3,3 | 10 | 7 | 180 | 50 | 0,204 |
| | | NXNF050000000* | 50 | 3,4 | 4,5 | 810 | 3,3 | 10 | 7 | 200 | 50 | 0,255 |
| | | NXNF051500000* | 51,5 | 3,4 | 4,5 | 830 | 3,3 | 10 | 7 | 210 | 50 | 0,261 |
| | | NXNF052000000 | 50,8 | 3,4 | 4,5 | 820 | 3,3 | 10 | 7 | 200 | 50 | 0,258 |
| | | NXNF055000000* | 55 | 3,4 | 4,7 | 910 | 3,3 | 10 | 7 | 220 | 50 | 0,278 |
| | | NXNF060000000* | 60 | 3,4 | 4,7 | 990 | 3,3 | 10 | 7 | 240 | 50 | 0,400 |
| | | NXNF063000000 | 63,5 | 3,5 | 4,7 | 1060 | 3,3 | 10 | 7 | 250 | 50 | 0,420 |
| | | NXNF065000000* | 65 | 3,6 | 4,8 | 1120 | 3,3 | 10 | 7 | 250 | 50 | 0,430 |
| | | NXNF070000000* | 70 | 3,7 | 5,1 | 1220 | 3,3 | 10 | 7 | 270 | 50 | 0,462 |
| | | NXNF076000000 | 76,2 | 3,9 | 5,3 | 1390 | 3,3 | 10 | 7 | 290 | 50 | 0,625 |
| | | NXNF080000000* | 80 | 4,2 | 5,6 | 1540 | 3 | 9 | 7 | 310 | 50 | 0,657 |
| | | NXNF090000000* | 90 | 4,5 | 6 | 1880 | 3 | 9 | 6 | 360 | 30 | 0,588 |
| | | NXNF100000000* | 100 | 4,8 | 6,4 | 2200 | 3 | 9 | 6 | 400 | 30 | 0,866 |
| | | NXNF102000000 | 102 | 4,8 | 6,4 | 2240 | 3 | 9 | 6 | 400 | 30 | 0,882 |
| | | NXNF110000000* | 110 | 5,1 | 6,8 | 2570 | 3 | 9 | 5 | 440 | 30 | 0,949 |
| | | NXNF120000000* | 120 | 5,1 | 6,8 | 2790 | 2 | 6 | 5 | 550 | 30 | 1,069 |
| | | NXNF127000000* | 127 | 5,2 | 7 | 3040 | 2 | 6 | 5 | 580 | 30 | 1,128 |
| | | NXNF150000000* | 151,5 | 6,2 | 8,3 | 4390 | 2 | 6 | 5 | 660 | 20 | 1,345 |
| | | NXNF152000000* | 152,4 | 6,2 | 8,3 | 4420 | 2 | 6 | 5 | 660 | 20 | 1,352 |
| | | NXNF200000000* | 200 | 6,5 | 10 | 6420 | 1,5 | 4,5 | 4 | 850 | 10 | 2,130 |
| | | NXNF203000000* | 203,2 | 6,5 | 10 | 6520 | 1,5 | 4,5 | 4 | 850 | 10 | 2,161 |
| | | NXNF250000000* | 250 | 6,8 | 10,5 | 8470 | 1,2 | 3,5 | 4 | 1500 | tramo 10 m/ straight | 0,734 |
| | | NXNF300000000* | 300 | 7,3 | 11,3 | 11120 | 0,8 | 2,5 | 4 | 1700 | tramo 10 m/ straight | 1,041 |



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



NETTUNO (cód. NQ) p.107



NETTUNO PU (cód. NR) p.108

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ARIANNA 20 BAR



(ES) **Tubo flexible de PVC-P reforzado con hilo de poliéster.** Interior y exterior de color negro con una tira identificativa beige, resiste a los agentes atmosféricos y a gran parte de los productos químicos.

• Se utilizan en el sector agrícola para la fumigación y la pulverización a presión de soluciones fungicidas, fertilizantes y herbicidas; utilizados en los atomizadores agrícolas para el tratamiento de pesticidas. Aire comprimido.

(EN) **Black flexible PVC-P hose with an identificative hazel-brown stripe, reinforced with a braided polyester thread.** Resistant to most chemicals and weathering.

• In agriculture, delivery pressure hose of fungicide solutions, fertilisers and herbicides. Used on trailed atomizers for fertilisers and pesticides treatments. Compressed air.




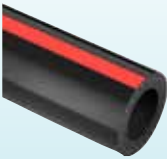
CÓD. YV
Ø mm 8-25



Tubo en PVC-P
PVC-P hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | R. CURVATURA | LG. ROLLO | VOL. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|--------|--------|------|------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | g/m | bar | bar | mm | m | m ³ |
|  <p>en stock available on stock</p>  <p>+60°C -10°C</p> <p>ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES</p>  <p>ARIANNA 40 BAR (cód. YQ) p.82</p>  <p>ARIANNA 80 BAR (cód. YO) p.83</p> | YV010080013000 | 8 | 13 | 115 | 20 | 60 | 40 | 100 | 0,028 |
| | YV010100015000 | 10 | 15 | 140 | 20 | 60 | 50 | 100 | 0,036 |
| | YV010130019000 | 13 | 19 | 215 | 20 | 60 | 70 | 100 | 0,058 |
| | YV010160023000 | 16 | 23 | 300 | 20 | 60 | 80 | 50 | 0,042 |
| | YV010190026500 | 19 | 26,5 | 375 | 20 | 60 | 100 | 50 | 0,090 |
| | YV010250033500 | 25 | 33,5 | 545 | 20 | 60 | 130 | 50 | 0,111 |

*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

ARIANNA 40 BAR



ES **Tubo flexible de PVC-P reforzado con hilo de poliéster.** Interior y exterior de color negro con una tira identificativa azul, resiste a los agentes atmosféricos y a gran parte de los productos químicos.

• Se utilizan en el sector agrícola para la fumigación y la pulverización a presión de soluciones fungicidas, fertilizantes y herbicidas; utilizados en los atomizadores agrícolas para el tratamiento de pesticidas. Aire comprimido.

EN **Black flexible PVC-P hose with an identificative light blue stripe, reinforced with a braided polyester thread.** Resistant to most chemicals and weathering.

• In agriculture, delivery pressure hose of fungicide solutions, fertilisers and herbicides. Used on trailed atomizers for fertilisers and pesticides treatments. Compressed air.

CÓD. YQ

Ø mm 8-16



Tubo en PVC-P
PVC-P hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement

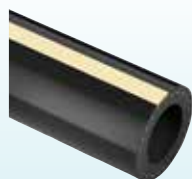


| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO CODE | Ø INT. Ø INT. | Ø EST. Ø OUT. | PESO WEIGHT | P.T. W.P. | P.R. B.P. | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. |
|--------------------------------|--|----------------|------------------|------------------|----------------|--------------|--------------|-------------------------|-------------------------|----------------|
| | | | mm | mm | g/m | bar | bar | mm | m | m ³ |
| | | YQ010080014000 | 8 | 14 | 145 | 40 | 120 | 40 | 100 | 0,032 |
| | | YQ010100016500 | 10 | 16,5 | 190 | 40 | 120 | 50 | 100 | 0,043 |
| | | YQ010130021000 | 13 | 21 | 300 | 40 | 120 | 70 | 100 | 0,087 |
| | | YQ010160024000 | 16 | 24 | 360 | 40 | 120 | 80 | 50 | 0,072 |

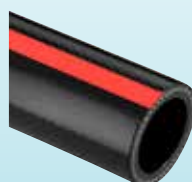
JP
en stock
available on stock

+60°C
-10°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



ARIANNA 20 BAR (cód. YV) p.81



ARIANNA 80 BAR (cód. YO) p.83

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

ARIANNA 80 BAR



(ES) **Tubo flexible de PVC-P, con doble refuerzo de hilo de poliéster.** Interior y exterior de color negro con una tira identificativa roja. Resistente a los agentes atmosféricos y a gran parte de los productos químicos. se utiliza en el sector agrícola en máquinas y equipos para la pulverización y el riego a presión (80 bar) de soluciones fungicidas, fertilizantes y herbicidas.

• También se utiliza en los atomizadores arrastrados, para los tratamientos con fertilizantes y plaguicidas. Aire comprimido.

(EN) **Black flexible PVC-P hose with an identificative red stripe, reinforced with a double braided polyester thread.** Resistant to most chemicals and weathering.

• In agriculture, delivery pressure hose of fungicide solutions, fertilisers and herbicides. Used on trailed atomizers for fertilisers and pesticides treatments. Air compressed.

CÓD. YO
Ø mm 8-13



Tubo en PVC-P
PVC-P hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



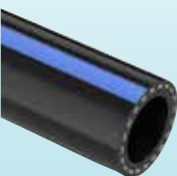
| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|----------------|--------|--------|--------|------|------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | g/m | bar | bar | mm | m | m ³ |
| | YO010080015000 | 8 | 15 | 185 | 80 | 240 | 40 | 100 | 0,036 |
| | YO010100018000 | 10 | 18 | 255 | 80 | 240 | 50 | 100 | 0,050 |
| | YO010130021000 | 13 | 21 | 325 | 80 | 240 | 70 | 100 | 0,087 |



ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



ARIANNA 20 BAR (cód. YV) p.81



ARIANNA 40 BAR (cód. YQ) p.82

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.

ES Manguera plana de PVC-P, con capa inferior de formulación especial de PVC/NBR (negra en el interior y azul en el exterior), con refuerzo textil de poliéster de alta tenacidad.

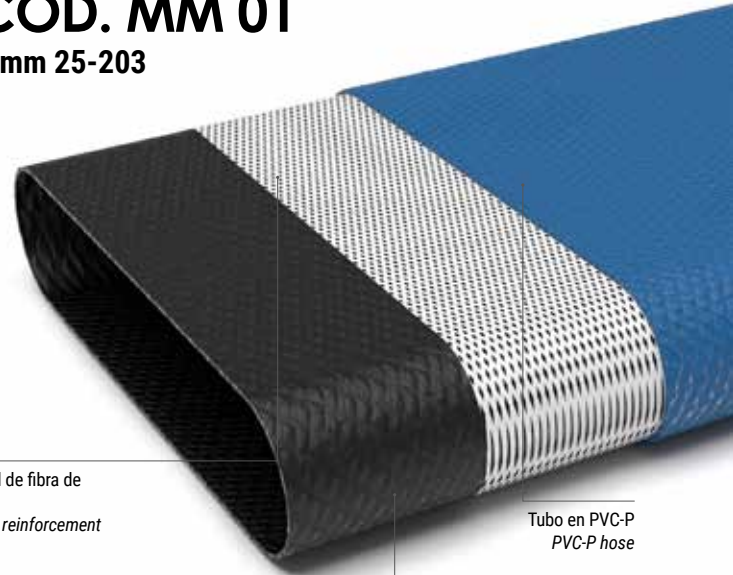
Muy ligera y fácil de manejar, tiene una gran resistencia al envejecimiento, a los rayos UV, al ozono, a los agentes atmosféricos y a numerosas sustancias químicas.

• Excelente solución para riego y impulsión de líquidos, fertilizantes y soluciones utilizadas en la agricultura.

EN Blue Layflat hose made of PVC-P, with a special PVC-NBR liner and high tenacity polyester textile reinforcement. Very light and easy to handle, it has a high resistance to ageing, UV rays, ozone, weathering and to many chemicals.

• In agriculture, used for irrigation and delivery of liquids commonly used in the sector, such as fertilisers and insecticides.

CÓD. MM 01
Ø mm 25-203



Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement

Tubo en PVC-P
PVC-P hose

Capa inferior de PVC-NBR
PVC-NBR liner



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO CODE | Ø INT. Ø INT. mm | PESO WEIGHT g/m | P.T. W.P. bar | P.R. B.P. bar | LG. ROLLO COIL LGTH. m |
|--------------------------------|------------------|------------------------|-----------------------|---------------------|---------------------|------------------------------|
| | MM01025000000 | 25 | 200 | 8 | 24 | 50 |
| | MM01 0300000000* | 30 | 220 | 8 | 24 | 50 |
| | MM01032000000 | 32 | 230 | 8 | 24 | 50 |
| | MM01035000000 | 35 | 250 | 8 | 24 | 50 |
| | MM01038000000 | 38 | 270 | 8 | 24 | 50 |
| | MM01040000000 | 40 | 290 | 8 | 24 | 50 |
| | MM01045000000 | 45 | 320 | 8 | 24 | 50 |
| | MM01052000000 | 50,8 | 360 | 8 | 24 | 50 |
| | MM01060000000 | 60 | 480 | 8 | 24 | 50 |
| | MM01063000000 | 63 | 500 | 8 | 24 | 50 |
| | MM01070000000 | 70 | 570 | 8 | 24 | 50 |
| | MM01076000000 | 76 | 600 | 8 | 24 | 50 |
| | MM01080000000 | 80 | 660 | 8 | 24 | 50 |
| | MM01090000000 | 90 | 760 | 8 | 24 | 50 |
| | MM01102000000 | 102 | 850 | 8 | 24 | 50 |
| | MM01127000000 | 127 | 1250 | 6 | 17 | 50 |
| | MM01153000000 | 153 | 1580 | 6 | 17 | 50 |
| | MM01203000000 | 203 | 2200 | 3 | 8 | 50 |

JP
en stock
available on stock

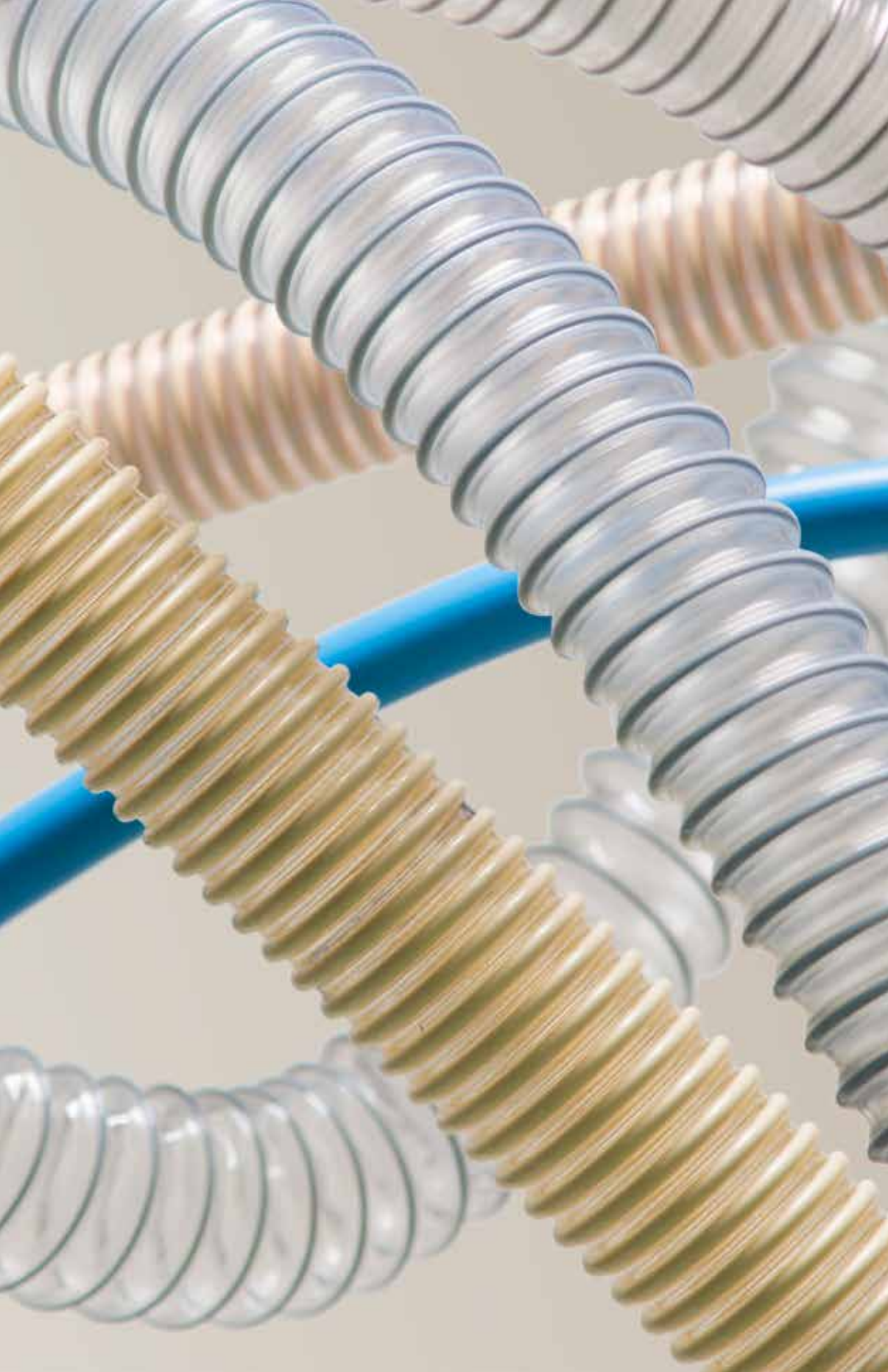
+60°C
-10°C

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% umidity.



VULCANO® 04 ET
VULCANO® 09 ET
VULCANO® 12 ET
VULCANO® 15 ET
NEXT 07 ET
NEXT 09 ET
NEXT 15 ET
EOLO PU FOOD
EOLO PUP FOOD
ZEUS PU FOOD
PLUTONE A
PLUTONE A SE
PLUTONE PU
PLUTONE PF
PLUTONE BIO
PLUTONE PRESS BIO
ARIANNA BIO
ARIANNA TA
CLEANWASH
CRISTALLO
NETTUNO PU
SATURNO YELLOW
NETTUNO
NETTUNO ENO
BACCO
SPIRALPRESS ENO

ALIMENTACIÓN FOOD

VULCANO® 04 ET



ES Tubo transparente de TPU a base de éter, reforzado con espiral de acero recubierto de TPU de color gris, para asegurar la máxima adhesión con la pared. Realizado con un TPU especial dotado de características combinadas que convierten el material de la pared en antiestático permanente ($R < 10^9 \text{ Ohm/m}$); Flexible y comprimible (aprox 5:1) para facilitar el transporte y el almacenaje. Espesor de pared de 0,4 mm constante para todos los diámetros. Excelente resistencia a la abrasión, a la flexión, a los ataques microbianos, a los procesos de hidrólisis y a los rayos uv. Conductivo conectando la espiral a tierra ($R < 10^2 \text{ Ohm/m}$). Alimentario según UE 10/2011 (clases A, B, C, D2, E) y FDA CFR 21-Item 177.2600,

• Industria alimentaria: aspiración ligera y transporte de polvo y sustancias abrasivas de tipo alimentario. Apto para el transporte de alimentos grasos.

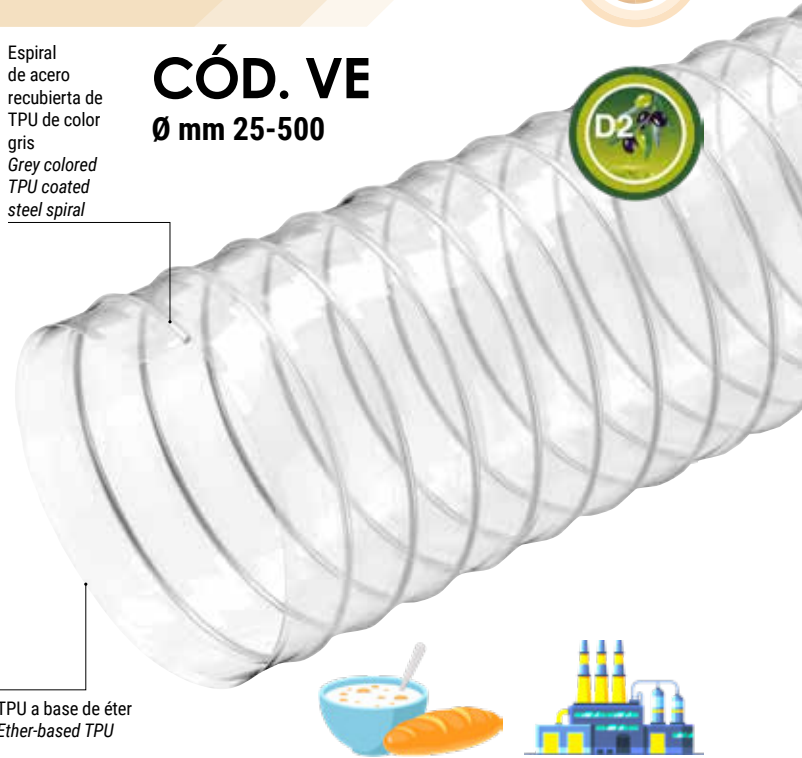
EN Transparent ether based TPU hose, reinforced with a high adhesion grey coloured TPU coated steel spiral. The wall material is permanent antistatic ($R < 10^9 \text{ Ohm/m}$). Axially compressible (5:1). Constant wall thickness of 0,4 mm throughout the range. Excellent resistance to abrasion, flexion, UV rays as well as to weathering, Hydrolysis and microbes. Neutral in odour and taste, it does not alter the organoleptic properties of the transported products. It can be made conductive ($R < 10^2 \text{ Ohm/m}$) by grounding the spiral. Food grade, according to EU 10/2011 (classes A, B, C, D2, E) and FDA CFR 21-177.2600.

• Food industry: light suction of abrasive powders, flours and fatty food.

Espiral de acero recubierta de TPU de color gris
Grey colored TPU coated steel spiral

CÓD. VE
Ø mm 25-500

TPU a base de éter
Ether-based TPU



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|--|-----------------|--------|--------------|--------|--------------------|--------------|-------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| constante 0,4 constant | | VE010250000000* | 25 | 0,4 | 130 | 0,4 | 25 | 20 | 0,048 |
| | | VE010300000000* | 30 | 0,4 | 150 | 0,4 | 25 | 20 | 0,068 |
| | | VE010320000000* | 32 | 0,4 | 160 | 0,4 | 25 | 20 | 0,072 |
| | | VE010350000000* | 35 | 0,4 | 170 | 0,4 | 25 | 20 | 0,077 |
| | | VE010380000000* | 38 | 0,4 | 185 | 0,4 | 30 | 20 | 0,083 |
| | | VE010400000000* | 40 | 0,4 | 195 | 0,4 | 32 | 20 | 0,092 |
| | | VE010450000000* | 45 | 0,4 | 215 | 0,4 | 36 | 20 | 0,136 |
| | | VE010510000000* | 51 | 0,4 | 200 | 0,4 | 40 | 20 | 0,151 |
| | | VE010600000000* | 60 | 0,4 | 230 | 0,4 | 50 | 20 | 0,174 |
| | | VE010630000000 | 63 | 0,4 | 245 | 0,4 | 55 | 20 | 0,182 |
| | | VE010650000000 | 65 | 0,4 | 250 | 0,4 | 56 | 20 | 0,187 |
| | | VE010700000000 | 70 | 0,4 | 295 | 0,4 | 60 | 20 | 0,200 |
| | | VE010760000000 | 76 | 0,4 | 315 | 0,4 | 65 | 20 | 0,215 |
| | | VE010800000000 | 80 | 0,4 | 330 | 0,4 | 65 | 20 | 0,225 |
| | | VE010820000000 | 82 | 0,4 | 340 | 0,4 | 65 | 20 | 0,230 |
| | | VE010900000000 | 90 | 0,4 | 370 | 0,4 | 75 | 20 | 0,251 |
| | | VE011000000000 | 100 | 0,4 | 410 | 0,3 | 85 | 15 | 0,311 |
| | | VE011020000000 | 102 | 0,4 | 415 | 0,3 | 85 | 15 | 0,317 |
| | | VE011100000000 | 110 | 0,4 | 450 | 0,3 | 90 | 15 | 0,340 |
| | | VE011150000000 | 115 | 0,4 | 470 | 0,3 | 95 | 15 | 0,354 |
| | | VE011200000000 | 120 | 0,4 | 485 | 0,25 | 100 | 15 | 0,553 |
| | | VE011270000000 | 127 | 0,4 | 590 | 0,25 | 105 | 15 | 0,583 |
| | | VE011300000000 | 130 | 0,4 | 600 | 0,2 | 105 | 15 | 0,596 |
| | | VE011400000000 | 140 | 0,4 | 645 | 0,2 | 115 | 15 | 0,639 |
| | | VE011520000000 | 152 | 0,4 | 700 | 0,2 | 125 | 15 | 0,691 |
| | | VE011600000000 | 160 | 0,4 | 865 | 0,15 | 130 | 15 | 0,860 |
| | | VE011650000000 | 165 | 0,4 | 890 | 0,15 | 130 | 15 | 0,886 |
| | | VE011800000000 | 180 | 0,4 | 970 | 0,15 | 150 | 15 | 0,963 |
| | | VE011820000000 | 182 | 0,4 | 980 | 0,15 | 150 | 15 | 0,973 |
| | | VE012030000000 | 203 | 0,4 | 1095 | 0,1 | 165 | 15 | 1,085 |
| | | VE012200000000 | 220 | 0,4 | 1180 | 0,1 | 185 | 10 m compr. | 0,115 |
| | | VE012280000000 | 228 | 0,4 | 1225 | 0,1 | 185 | 10 m compr. | 0,124 |
| | | VE012540000000 | 254 | 0,4 | 1360 | 0,1 | 210 | 10 m compr. | 0,152 |
| | | VE012790000000 | 279 | 0,4 | 1490 | 0,08 | 230 | 10 m compr. | 0,182 |
| | | VE013050000000 | 305 | 0,4 | 1630 | 0,08 | 250 | 10 m compr. | 0,218 |
| | | VE013150000000 | 315 | 0,4 | 1685 | 0,07 | 275 | 10 m compr. | 0,232 |
| | | VE013560000000 | 356 | 0,4 | 1900 | 0,07 | 300 | 10 m compr. | 0,295 |
| | | VE014060000000 | 406 | 0,4 | 2160 | 0,06 | 350 | 10 m compr. | 0,381 |
| | | VE014500000000 | 450 | 0,4 | 2620 | 0,06 | 350 | 10 m compr. | 0,466 |
| | | VE015000000000 | 500 | 0,4 | 2910 | 0,06 | 350 | 10 m compr. | 0,572 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

VULCANO® 09 ET



ES

Tubo translucido de TPU a base de éter, reforzado con espiral de acero recubierto de TPU de color gris, para asegurar la máxima adhesión con la pared. Realizado con un TPU especial dotado de características combinadas que convierten el material del la pared en antiestático permanente (R<10⁹Ohm/m). Superficie interna lisa para optimizar el flujo, espesor de pared de 0,9 mm constante para todos los diámetros. Excelente resistencia a la hidrólisis y a los microbios, a la intemperie y a los rayos UV; sin olor, no altera las propiedades organolépticas de los productos transportados. Conductivo (R<10²Ohm/m) conectando la espiral a tierra. Alimentario según UE 10/2011 (clases A, B, C, D1, D2, E) y FDA CFR 21-177.2600.

• Aspiración de material abrasivo en la industria alimentaria y farmacéutica y allí donde sea necesaria la resistencia a los microbios y a la hidrólisis.

EN

Translucent ether based food grade TPU hose reinforced with a grey coloured TPU coated high adhesion steel spiral. The wall material is permanent antistatic (R<10⁹ Ohm/m). Smooth inside to ensure optimization of flow properties. Constant Wall thickness of 0,9 mm for the whole diameter range. Resistant to microbes and to Hydrolysis, to UV rays and weathering. Food grade, according to EU 10/2011(classes A, B, C, D1, D2, E) and FDA CFR 21-177.2600. The hose is neutral in odor and taste and does not alter the organoleptical properties of the transferred materials, It can be made conductive (R<10² Ohm/m) by grounding the spiral.

• Suction of abrasive powders and substances in Food processing and pharma plants and where resistance to microbes and Hydrolysis is required.

CÓD. VK

Ø mm 20-500

TPU a base de éter
Ether-based TPU

Espiral de acero recubierto de TPU de color gris
Grey colored TPU coated steel spiral



FICHA TÉCNICA · TECHNICAL DATA

constante
0,9
constant

+90°C
picos
peaks
+125°C

-40°C



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



| CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|-----------------|--------|--------------|--------|--------------------|--------------|----------------------|----------------|-----------------------------|
| CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIGE W2 |
| | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| VK010200000000* | 20 | 0,9 | 155 | 5 | 25 | 20 | 0,037 | - |
| VK010250000000* | 25 | 0,9 | 195 | 5 | 30 | 20 | 0,045 | - |
| VK010270000000* | 27 | 0,9 | 205 | 5 | 30 | 20 | 0,048 | - |
| VK010300000000* | 30 | 0,9 | 235 | 5 | 35 | 20 | 0,052 | - |
| VK010320000000* | 32 | 0,9 | 250 | 5 | 35 | 20 | 0,055 | - |
| VK010340000000* | 34 | 0,9 | 265 | 5 | 40 | 20 | 0,058 | - |
| VK010350000000* | 35 | 0,9 | 270 | 5 | 40 | 20 | 0,059 | - |
| VK010380000000 | 38 | 0,9 | 260 | 5 | 40 | 20 | 0,063 | - |
| VK010400000000 | 40 | 0,9 | 270 | 5 | 50 | 20 | 0,066 | - |
| VK010450000000* | 45 | 0,9 | 355 | 5 | 50 | 20 | 0,094 | - |
| VK010500000000 | 50 | 0,9 | 390 | 4 | 60 | 20 | 0,103 | - |
| VK010510000000 | 51 | 0,9 | 395 | 4 | 60 | 20 | 0,104 | - |
| VK010550000000* | 55 | 0,9 | 425 | 4 | 60 | 20 | 0,119 | - |
| VK010600000000 | 60 | 0,9 | 460 | 3 | 70 | 20 | 0,129 | - |
| VK010630000000 | 63 | 0,9 | 485 | 3 | 70 | 20 | 0,134 | - |
| VK010650000000* | 65 | 0,9 | 500 | 3 | 70 | 20 | 0,184 | - |
| VK010700000000 | 70 | 0,9 | 620 | 3 | 80 | 20 | 0,202 | - |
| VK010750000000* | 75 | 0,9 | 660 | 3 | 90 | 20 | 0,215 | - |
| VK010760000000 | 76 | 0,9 | 670 | 3 | 90 | 20 | 0,245 | - |
| VK010800000000 | 80 | 0,9 | 700 | 3 | 90 | 20 | 0,256 | F2 W2 076.0 090.0 |
| VK010900000000 | 90 | 0,9 | 785 | 2,5 | 100 | 20 | 0,285 | - |
| VK011000000000 | 100 | 0,9 | 865 | 2 | 120 | 15 | 0,314 | - |
| VK011020000000 | 102 | 0,9 | 885 | 2 | 120 | 15 | 0,320 | - |
| VK011100000000 | 110 | 0,9 | 950 | 2 | 130 | 15 | 0,343 | F2 W2 100.0 127.0 |
| VK011200000000 | 120 | 0,9 | 1035 | 1,5 | 140 | 15 | 0,372 | - |
| VK011270000000 | 127 | 0,9 | 1275 | 1,5 | 150 | 15 | 0,392 | - |
| VK011300000000* | 130 | 0,9 | 1305 | 1,5 | 150 | 15 | 0,400 | - |
| VK011400000000* | 140 | 0,9 | 1400 | 1 | 160 | 15 | 0,644 | - |
| VK011500000000 | 150 | 0,9 | 1495 | 1 | 170 | 15 | 0,687 | - |
| VK011520000000 | 152 | 0,9 | 1515 | 1 | 170 | 15 | 0,696 | F2 W2 130.0 190.0 |
| VK011600000000 | 160 | 0,9 | 1590 | 1 | 180 | 15 | 0,730 | - |
| VK011700000000 | 170 | 0,9 | 1505 | 0,8 | 200 | 15 | 0,778 | - |
| VK011800000000 | 180 | 0,9 | 1590 | 0,8 | 210 | 15 | 0,973 | - |
| VK012000000000 | 200 | 0,9 | 1765 | 0,8 | 230 | 15 | 1,075 | - |
| VK012030000000 | 203 | 0,9 | 1790 | 0,8 | 230 | 15 | 1,091 | - |
| VK012050000000* | 205 | 0,9 | 1805 | 0,8 | 240 | 15 | 1,101 | - |
| VK012100000000* | 210 | 0,9 | 1850 | 0,6 | 240 | 15 | 1,126 | F2 W2 200.0 230.0 |
| VK012200000000* | 220 | 0,9 | 1935 | 0,6 | 250 | 10 | 1,178 | - |
| VK012250000000* | 225 | 0,9 | 1975 | 0,6 | 260 | 10 | 1,203 | - |
| VK012280000000* | 228 | 0,9 | 2005 | 0,6 | 260 | 10 | 1,219 | - |
| VK012500000000* | 250 | 0,9 | 2190 | 0,6 | 290 | 10 | 1,331 | - |
| VK012540000000* | 254 | 0,9 | 2225 | 0,6 | 290 | 10 | 1,352 | - |
| VK012650000000* | 265 | 0,9 | 2545 | 0,5 | 300 | 10 | 1,408 | - |
| VK012740000000* | 274 | 0,9 | 2630 | 0,5 | 320 | 10 | 1,454 | F2 W2 250.0 330.0 |
| VK012790000000* | 279 | 0,9 | 2675 | 0,5 | 320 | 10 | 1,480 | - |
| VK013000000000* | 300 | 0,9 | 2870 | 0,5 | 350 | 10 | 1,587 | - |
| VK013050000000* | 305 | 0,9 | 2920 | 0,5 | 350 | 10 | 1,613 | - |
| VK013500000000* | 350 | 0,9 | 3830 | 0,4 | 400 | tramo 10 m/ straight | 1,296 | F2 W2 350.0 410.0 |
| VK014060000000* | 406 | 0,9 | 4435 | 0,3 | 470 | tramo 10 m/ straight | 1,731 | - |
| VK014500000000* | 450 | 0,9 | 6215 | 0,3 | 520 | tramo 6 m/ straight | 1,275 | - |
| VK015000000000* | 500 | 0,9 | 6895 | 0,3 | 580 | tramo 6 m/ straight | 1,567 | - |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.
Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% umidity.

VULCANO® 12 ET



ES Tubo translucido de TPU a base de éter, reforzado con espiral de acero recubierto de TPU de color gris, para asegurar la máxima adhesión con la pared. Realizado con un TPU especial dotado de características combinadas que convierten el material del la pared en antiestático permanente (R<1090hm/m). Superficie interna lisa para optimizar el flujo, espesor de pared de 1,2 mm constante para todos los diámetros. Excelente resistencia a la hidrólisis y a los microbios, a la intemperie y a los rayos UV; sin olor, no altera las propiedades organolépticas de los productos transportados. Conductivo (R<10²Ohm/m) conectando la espiral a tierra. Alimentario según UE 10/2011 (clases A, B, C, D1, D2, E) y FDA CFR 21-177.2600.

- Aspiración media de sustancias abrasivas en la industria alimentaria y farmacéutica; se utiliza en aspiradoras industriales, barredoras y equipos de limpieza urbana.

EN Translucent ether based food grade TPU hose reinforced with a grey coloured TPU coated high adhesion steel spiral. The wall material is permanent antistatic (R<10⁹ Ohm/m). Smooth inside to ensure optimization of flow properties. Constant wall thickness of 1,2 mm for the whole diameter range. Resistant to microbes and to Hydrolysis, to UV rays and weathering. Food grade, according to EU 10/2011(classes A, B, C, D1, D2, E) and FDA CFR 21-177.2600. The hose is neutral in odor and taste and does not alter the organoleptical properties of the transferred materials, It can be made conductive (R<10² Ohm/m) by grounding the spiral.

- Suction of abrasive powders and substances in Food processing and pharma plants. Used on lawnmowing machines and street cleaning vehicles.

CÓD. VO
Ø mm 25-500

TPU a base de éter
Ether-based TPU

Espiral de acero recubierta de TPU de color gris
Grey colored TPU coated steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|--------------------------------------------|----------------|--------|--------------|--------|--------------------|--------------|----------------------|----------------|-----------------------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIGE W2 |
| | | | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| constante 1,2 constant | +90°C picos peaks +125°C -40°C | V001025000000* | 25 | 1,2 | 245 | 6 | 30 | 20 | 0,046 | - |
| | | V001030000000* | 30 | 1,2 | 345 | 6 | 35 | 20 | 0,054 | - |
| | | V001032000000* | 32 | 1,2 | 365 | 6 | 35 | 20 | 0,057 | - |
| | | V001035000000* | 35 | 1,2 | 395 | 6 | 40 | 20 | 0,062 | - |
| | | V001038000000* | 38 | 1,2 | 385 | 6 | 40 | 20 | 0,066 | - |
| | | V001040000000* | 40 | 1,2 | 405 | 6 | 50 | 20 | 0,086 | - |
| | | V001045000000* | 45 | 1,2 | 450 | 6 | 50 | 20 | 0,095 | - |
| | | V001050000000 | 50 | 1,2 | 495 | 5 | 60 | 20 | 0,104 | - |
| | | V001051000000 | 51 | 1,2 | 505 | 5 | 60 | 20 | 0,106 | - |
| | | V001060000000* | 60 | 1,2 | 640 | 4,5 | 70 | 20 | 0,131 | - |
| | | V001063000000 | 63 | 1,2 | 670 | 4,5 | 70 | 20 | 0,182 | - |
| | | V001065000000* | 65 | 1,2 | 690 | 4,5 | 70 | 20 | 0,187 | - |
| | | V001070000000 | 70 | 1,2 | 845 | 4,5 | 80 | 20 | 0,202 | - |
| | | V001075000000* | 75 | 1,2 | 900 | 4 | 80 | 20 | 0,215 | - |
| | | V001076000000 | 76 | 1,2 | 910 | 4 | 90 | 20 | 0,217 | - |
| | | V001080000000 | 80 | 1,2 | 955 | 3,5 | 90 | 20 | 0,227 | F2 W2 076.0 090.0 |
| | | V001090000000 | 90 | 1,2 | 1070 | 3 | 100 | 20 | 0,285 | - |
| | | V001100000000* | 100 | 1,2 | 1185 | 2,5 | 120 | 15 | 0,313 | - |
| | | V001102000000 | 102 | 1,2 | 1295 | 2,5 | 120 | 15 | 0,319 | - |
| | | V001110000000 | 110 | 1,2 | 1410 | 2,5 | 130 | 15 | 0,343 | F2 W2 100.0 127.0 |
| | | V001120000000* | 120 | 1,2 | 1545 | 2 | 140 | 15 | 0,372 | - |
| | | V001127000000 | 127 | 1,2 | 1630 | 2 | 150 | 15 | 0,392 | - |
| | | V001130000000* | 130 | 1,2 | 1670 | 2 | 150 | 15 | 0,401 | - |
| | | V001140000000* | 140 | 1,2 | 1795 | 1,5 | 160 | 15 | 0,645 | - |
| | | V001150000000* | 150 | 1,2 | 1915 | 1,5 | 170 | 15 | 0,688 | - |
| | | V001152000000 | 152 | 1,2 | 1940 | 1,5 | 170 | 15 | 0,696 | F2 W2 130.0 190.0 |
| | | V001160000000* | 160 | 1,2 | 2040 | 1,5 | 180 | 15 | 0,731 | - |
| | | V001170000000* | 170 | 1,2 | 1950 | 1 | 200 | 15 | 0,922 | - |
| | | V001180000000* | 180 | 1,2 | 2060 | 1 | 210 | 15 | 0,973 | - |
| | | V001200000000* | 200 | 1,2 | 2285 | 1 | 230 | 15 | 1,075 | - |
| | | V001203000000* | 203 | 1,2 | 2315 | 0,5 | 230 | 15 | 1,091 | - |
| | | V001205000000* | 205 | 1,2 | 2340 | 0,5 | 230 | 15 | 1,101 | F2 W2 200.0 230.0 |
| | | V001220000000* | 220 | 1,2 | 2505 | 0,5 | 260 | 10 | 1,178 | - |
| | | V001228000000* | 228 | 1,2 | 2595 | 0,5 | 260 | 10 | 1,219 | - |
| | | V001250000000* | 250 | 1,2 | 2840 | 0,5 | 290 | 10 | 1,331 | - |
| | | V001254000000* | 254 | 1,2 | 2885 | 0,5 | 290 | 10 | 1,352 | - |
| | | V001265000000* | 265 | 1,2 | 3380 | 0,5 | 300 | 10 | 1,409 | F2 W2 250.0 330.0 |
| | | V001279000000* | 279 | 1,2 | 3555 | 0,5 | 320 | 10 | 1,481 | - |
| | | V001305000000* | 305 | 1,2 | 3880 | 0,5 | 350 | 10 | 1,614 | - |
| | | V001355000000* | 355 | 1,2 | 4505 | 0,5 | 410 | tramo 10 m/ straight | 1,334 | - |
| | | V001406000000* | 406 | 1,2 | 5145 | 0,4 | 500 | tramo 10 m/ straight | 1,732 | - |
| | | V001500000000* | 500 | 1,2 | 7690 | 0,3 | 600 | tramo 6 m/ straight | 1,568 | - |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

VULCANO® 15 ET



ES Tubo translucido de TPU a base de éter, reforzado con espiral de acero recubierto de TPU de color gris, para asegurar la máxima adhesión con la pared. Realizado con un TPU especial dotado de características combinadas que convierten el material de la pared en antiestático permanente ($R < 10^9 \text{ Ohm/m}$). Superficie interna lisa para optimizar el flujo, espesor de pared de 1,5 mm constante para todos los diámetros. Excelente resistencia a la hidrólisis y a los microbios, a la intemperie y a los rayos UV; sin olor, no altera las propiedades organolépticas de los productos transportados. Conductivo ($R < 10^2 \text{ Ohm/m}$) conectando la espiral a tierra. Alimentario según UE 10/2011 (clases A, B, C, D1, D2, E) y FDA CFR 21-177.2600.

• Aspiración de sustancias muy abrasivas, en la industria alimentaria y farmacéutica y para todas las aplicaciones que requieran resistencia a la acción microbiana. Se utiliza en la industria del plástico para el paso de gránulos para la producción de artículos en contacto con alimentos. se utiliza en aspiradoras industriales, barredoras de calles, equipos de limpieza urbana y sistemas de recogida de hojas.

EN Translucent ether based TPU hose reinforced with a TPU-coated zinc colored steel spiral, to offer the best adhesion with the hose wall. The wall material is permanent antistatic ($R < 10^9 \text{ Ohm/m}$). Smooth inside to ensure optimization of flow properties. Constant wall thickness of 1,5 mm for the whole diameter range. Resistant to microbes and Hydrolysis, UV rays and weathering. The hose is neutral in odor and taste and doesn't alter the organoleptical properties of the transferred materials. It can be made conductive ($R < 10^2 \text{ Ohm/m}$) by grounding the spiral. Food grade, in accordance with UE 10/2011 (classes A, B, C, D1, D2, E) and FDA CFR- 177.2600.

• Suction of highly abrasive media in the food and pharmaceutical industries and for all those applications where a special microbes resistance is required. Mainly used in plastic industry for suction of granulates for products intended to come into contact with foodstuff. Often installed on street cleaning vehicles.

CÓD. VI

Ø mm 20-500

TPU a base de éter
Ether-based TPU

Espiral de acero recubierta de TPU de color gris
Grey colored TPU coated steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACÍO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|---------------------------------------|--------------------------------------------------------|-----------------|--------|--------------|--------|--------------------|-------------------|------------|-------------------|-----------------------------|
| | | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIGE W2 |
| | | | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| <p>constante 1,5 constant</p> | <p>+90°C picos peaks +125°C -40°C</p> | VI010200000000* | 20 | 1,5 | 250 | 9,5 | 25 | 20 | 0,041 | - |
| | | VI010250000000* | 25 | 1,5 | 300 | 9,5 | 30 | 0,048 | - | |
| | | VI010300000000* | 30 | 1,5 | 390 | 9,5 | 35 | 0,055 | - | |
| | | VI010320000000* | 32 | 1,5 | 415 | 9,5 | 35 | 0,058 | - | |
| | | VI010350000000* | 35 | 1,5 | 450 | 9,5 | 40 | 0,062 | - | |
| | | VI010380000000 | 38 | 1,5 | 470 | 9,5 | 40 | 0,091 | - | |
| | | VI010400000000 | 40 | 1,5 | 490 | 9,5 | 50 | 0,095 | - | |
| | | VI010450000000* | 45 | 1,5 | 545 | 9 | 50 | 0,104 | - | |
| | | VI010500000000 | 50 | 1,5 | 600 | 9 | 60 | 0,114 | - | |
| | | VI010510000000 | 51 | 1,5 | 610 | 9 | 60 | 0,116 | - | |
| | | VI010600000000 | 60 | 1,5 | 705 | 8,5 | 70 | 0,133 | - | |
| | | VI010630000000 | 63 | 1,5 | 740 | 8 | 70 | 0,185 | - | |
| | | VI010650000000* | 65 | 1,5 | 760 | 7,5 | 70 | 0,190 | - | |
| | | VI010700000000 | 70 | 1,5 | 895 | 7,5 | 80 | 0,205 | - | |
| | | VI010750000000* | 75 | 1,5 | 955 | 7 | 80 | 0,218 | - | |
| | | VI010760000000 | 76 | 1,5 | 965 | 7 | 90 | 0,220 | - | |
| | | VI010800000000 | 80 | 1,5 | 1015 | 6 | 90 | 0,259 | F2 W2 076.0 090.0 | |
| | | VI010900000000 | 90 | 1,5 | 1135 | 5 | 100 | 0,288 | - | |
| | | VI011000000000* | 100 | 1,5 | 1250 | 4 | 120 | 0,317 | - | |
| | | VI011020000000 | 102 | 1,5 | 1275 | 3,5 | 120 | 0,323 | - | |
| VI011100000000 | 110 | 1,5 | 1370 | 3,2 | 130 | 0,346 | - | | | |
| VI011150000000 | 115 | 1,5 | 1430 | 3 | 135 | 0,360 | F2 W2 100.0 127.0 | | | |
| VI011200000000 | 120 | 1,5 | 1490 | 3 | 140 | 0,374 | - | | | |
| VI011270000000 | 127 | 1,5 | 1875 | 2,9 | 150 | 0,397 | - | | | |
| VI011300000000* | 130 | 1,5 | 1920 | 2,6 | 150 | 0,406 | - | | | |
| VI011400000000* | 140 | 1,5 | 2060 | 2,4 | 160 | 0,651 | - | | | |
| VI011500000000 | 150 | 1,5 | 2200 | 2 | 170 | 0,695 | - | | | |
| VI011520000000 | 152 | 1,5 | 2230 | 2 | 170 | 0,703 | F2 W2 130.0 190.0 | | | |
| VI011600000000 | 160 | 1,5 | 2345 | 1,8 | 180 | 0,738 | - | | | |
| VI011700000000 | 170 | 1,5 | 2435 | 1,5 | 210 | 0,784 | - | | | |
| VI011800000000 | 180 | 1,5 | 2570 | 1,5 | 210 | 0,827 | - | | | |
| VI012000000000 | 200 | 1,5 | 2850 | 1,2 | 230 | 0,913 | - | | | |
| VI012030000000 | 203 | 1,5 | 2890 | 1,2 | 230 | 0,926 | - | | | |
| VI012060000000* | 206 | 1,5 | 2930 | 1,2 | 235 | 1,113 | F2 W2 200.0 230.0 | | | |
| VI012200000000* | 220 | 1,5 | 3125 | 1 | 260 | 1,185 | - | | | |
| VI012280000000* | 228 | 1,5 | 3235 | 1 | 260 | 1,226 | - | | | |
| VI012500000000* | 250 | 1,5 | 3540 | 0,8 | 290 | 1,338 | - | | | |
| VI012540000000* | 254 | 1,5 | 3595 | 0,8 | 290 | 1,359 | - | | | |
| VI012570000000* | 257 | 1,5 | 3635 | 0,7 | 295 | 1,374 | - | | | |
| VI012650000000* | 265 | 1,5 | 3745 | 0,7 | 300 | 1,415 | F2 W2 250.0 330.0 | | | |
| VI012790000000* | 279 | 1,5 | 3940 | 0,7 | 320 | 1,487 | - | | | |
| VI013050000000* | 305 | 1,5 | 5145 | 0,5 | 350 | 1,007 | - | | | |
| VI013560000000* | 356 | 1,5 | 5990 | 0,3 | 420 | 0,814 | - | | | |
| VI014000000000* | 400 | 1,5 | 6715 | 0,3 | 480 | 1,020 | F2 W2 350.0 410.0 | | | |
| VI014500000000* | 450 | 1,5 | 7540 | 0,25 | 540 | 1,283 | - | | | |
| VI015000000000* | 500 | 1,5 | 8370 | 0,2 | 600 | 1,575 | - | | | |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

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NEXT 07 ET



ES Tubo transparente de TPU a base de éter reforzado con espiral de acero INOX AISI 302 y recubierta de TPU, para garantizar una óptima adhesión con la pared y asegurar la máxima seguridad en uso. Superficie interna completamente lisa para optimizar el paso de gránulos y optimizar el flujo del material transportado; espesor de pared de 0,7 mm constante para todos los diámetros. Realizado con un TPU especial dotado de características combinadas que convierten el material de la pared en antiestático permanente (10^9 Ohm/metro), y resistente a los ataques de microbio, a la hidrólisis. Robusto pero ligero y flexible, también es adecuado para trabajos pesados y mantiene una gran flexibilidad incluso a bajas temperaturas. Sin olor, no altera las propiedades organolépticas de los productos transportados. Excelente resistencia a los aceites minerales, el envejecimiento, los rayos UV, la intemperie, el ozono y muchos otros productos químicos. El tubo puede volverse en conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Alimentario según UE 10/2011 (clases A, B, C, D1, D2, E) y FDA CFR 21-Item 177.2600.

- Aspiración de materiales abrasivos en las industrias alimentaria y farmacéutica. Puede ser usado en la industria química y para todas las aplicaciones que necesitan de una resistencia a la acción microbica. Utilizado en la industria del plástico para el transporte de gránulos para la producción de manufacturados destinados al contacto con alimentos.

EN Transparent ether based TPU hose reinforced with a TPU-coated AISI 302 INOX steel spiral, to offer the best adhesion with the hose wall. Completely smooth inside to ensure optimization of flow properties. Constant wall thickness of 0,7 mm for the whole diameter range. It is made by a special TPU that combines different properties which make the wall material permanent antistatic ($R < 10^9$ Ohm/m). Resistant to microbes and Hydrolysis. Strong but very light and flexible even at low temperatures, it is suitable for heavy duty applications where a very good abrasion resistance is required. Excellent resistance to mineral oils and chemicals, ageing, UV rays, ozone and weathering. Food grade, in accordance with EU 10/2011 (classes A, B, C, D1, D2, E) and with FDA CFR 21-177.2600). The hose can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

- Suction of abrasive media in the food and pharmaceutical industries. Used in chemical industry and for all those applications where a special microbes resistance is required. Mainly used in plastic industry for the suction of granulates for products intended to come into contact with foodstuff. Installed on street cleaning vehicles.

CÓD. N7 ET Ø mm 50,8-203



TPU a base de éter
Ether-based TPU

Espiral de acero inox ricoperta di TPU
TPU coated stainless steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------------|--------|--------------------|--------------|------------|-------------------|-----------------------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIGE W2 |
| | | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| <p>constante 0,7 constant</p> <p>F2 W2 p.122 Abrazaderas doble puente W2 / Double bridge W2</p> | N7ET0520000000 | 50,8 | 0,7 | 360 | 2 | 50 | 30 | 0,182 | - |
| | N7ET0600000000* | 60 | 0,7 | 420 | 1,7 | 70 | 30 | 0,211 | - |
| | N7ET0630000000 | 63,5 | 0,7 | 430 | 1,7 | 70 | 30 | 0,300 | - |
| | N7ET0650000000* | 65 | 0,7 | 440 | 1,7 | 75 | 30 | 0,307 | - |
| | N7ET0700000000* | 70 | 0,7 | 470 | 1,7 | 85 | 30 | 0,328 | - |
| | N7ET0760000000 | 76,2 | 0,7 | 475 | 1,7 | 90 | 30 | 0,355 | - |
| | N7ET0800000000 | 80 | 0,7 | 495 | 1,6 | 95 | 30 | 0,372 | F2 W2 076.0 090.0 |
| | N7ET0900000000* | 90 | 0,7 | 555 | 1,6 | 105 | 20 | 0,276 | - |
| | N7ET1000000000* | 100 | 0,7 | 690 | 1,3 | 135 | 20 | 0,308 | - |
| | N7ET1020000000 | 102 | 0,7 | 705 | 1,3 | 135 | 20 | 0,313 | - |
| <p>ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES</p> <p>NEXT 07 (cód. N7) p.28</p> <p>NEXT 09 ET (cód. N9 ET) p.91</p> <p>NEXT 15 ET (cód. N5 ET) p.89</p> | N7ET1100000000* | 110 | 0,7 | 760 | 1,2 | 145 | 20 | 0,505 | F2 W2 100.0 127.0 |
| | N7ET1200000000 | 120 | 0,7 | 785 | 1 | 160 | 20 | 0,548 | - |
| | N7ET1270000000* | 127 | 0,7 | 830 | 1 | 210 | 20 | 0,578 | - |
| | N7ET1400000000* | 140 | 0,7 | 915 | 0,8 | 185 | 20 | 0,634 | - |
| | N7ET1520000000* | 152,4 | 0,7 | 1100 | 0,8 | 230 | 20 | 0,817 | F2 W2 130.0 190.0 |
| N7ET1600000000* | 160 | 0,7 | 1160 | 0,7 | 250 | 20 | 0,856 | - | |
| N7ET1800000000* | 180 | 0,7 | 1305 | 0,5 | 270 | 20 | 0,958 | - | |
| N7ET2030000000* | 203,2 | 0,7 | 1625 | 0,4 | 300 | 15 | 1,079 | F2 W2 200.0 230.0 | |

*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% umidity.

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ES

Tubo transparente de TPU a base de éter reforzado con espiral de acero INOX AISI 302 recubierta de TPU, para garantizar una óptima adhesión con la pared y asegurar la máxima seguridad en uso. Superficie interna completamente lisa para optimizar el paso de gránulos y optimizar el flujo del material transportado; espesor de pared de 0,9 mm constante para todos los diámetros. Realizado con un TPU especial dotado de características combinadas que convierten el material de la pared en antiestático permanente (10⁹ Ohm/metro), y resistente a los ataques de microbio, a la hidrólisis. Robusto pero ligero y flexible, también es adecuado para trabajos pesados y mantiene una gran flexibilidad incluso a bajas temperaturas. Sin olor, no altera las propiedades organolépticas de los productos transportados. Excelente resistencia a los aceites minerales, el envejecimiento, los rayos UV, la intemperie, el ozono y muchos otros productos químicos. El tubo puede volverse conductivo (R<10² Ohm/m) conectando la espiral a tierra. Alimentario según UE 10/2011 (clases A, B, C, D1, D2, E) y FDA CFR 21-Item 177.2600.

• Aspiración de materiales abrasivos en las industrias alimentaria y farmacéutica. Puede ser usado en la industria química y para todas las aplicaciones que necesiten de una resistencia a la acción microbica. Utilizado en la industria del plástico para el transporte de gránulos para la producción de manufacturados destinados al contacto con alimentos.

EN

Transparent ether based TPU hose reinforced with a TPU-coated AISI 302 INOX steel spiral, to offer the best adhesion with the hose wall. Completely smooth inside to ensure optimization of flow properties. Constant wall thickness of 0,9 mm for the whole diameter range. It is made by a special TPU that combines different properties which make the wall material permanent antistatic (R<10⁹ Ohm/m). Resistant to microbes and Hydrolysis. Strong but very light and flexible even at low temperatures, it is suitable for heavy duty applications where a very good abrasion resistance is required. Good resistance to mineral oils and chemicals, ageing, UV rays, ozone and weathering. Food grade, in accordance with EU 10/2011 (classes A, B, C, D1, D2, E) and with FDA CFR 21-177.2600. The hose can be conductive (R<10² Ohm/m) by grounding the spiral.

• Suction of abrasive media in the food and pharmaceutical industries. Used in chemical industry and for all those applications where a special microbes resistance is required. Mainly used in plastic industry for the suction of granulates for products intended to come into contact with foodstuff. Installed on street cleaning vehicles.

CÓD. N9 ET

Ø mm 30-203



TPU a base de éter
Ether-based TPU

Espiral de acero inox ricoperta di TPU
TPU coated stainless steel spiral



FICHA TÉCNICA - TECHNICAL DATA

constante
0,9
constant

+90°C picos
peaks
+125°C
-40°C

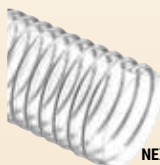


F2 W2 p.122
Abrazaderas doble puente W2 / Double bridge W2

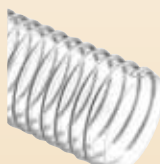
ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



NEXT 09 (cód. N9) p.29



NEXT 07 ET (cód. N7 ET) p.90



NEXT 15 ET (cód. N5 ET) p.92

| CÓDIGO CODE | Ø INT. Ø INT. | MIN ESP. MIN WALL TH. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. | ABRAZADERAS DOBLE PUENTE W2 DOUBLE BRIGE W2 |
|----------------|------------------|--------------------------|----------------|--------------------|-------------------------|-------------------------|----------------|------------------------------------------------|
| | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| N9ET030000000* | 30 | 0,9 | 230 | 5 | 40 | 20 | 0,051 | - |
| N9ET038000000 | 38,1 | 0,9 | 315 | 5 | 40 | 20 | 0,080 | - |
| N9ET040000000 | 40 | 0,9 | 320 | 5 | 40 | 20 | 0,084 | - |
| N9ET045000000* | 45 | 0,9 | 345 | 5 | 45 | 20 | 0,093 | - |
| N9ET052000000 | 50,8 | 0,9 | 375 | 4 | 50 | 20 | 0,103 | - |
| N9ET060000000* | 60 | 0,9 | 505 | 3 | 70 | 20 | 0,128 | - |
| N9ET063000000 | 63,5 | 0,9 | 535 | 3 | 70 | 20 | 0,135 | - |
| N9ET065000000* | 65 | 0,9 | 550 | 3 | 75 | 20 | 0,138 | - |
| N9ET070000000* | 70 | 0,9 | 690 | 3 | 90 | 20 | 0,198 | - |
| N9ET076000000 | 76,2 | 0,9 | 745 | 3 | 90 | 20 | 0,214 | - |
| N9ET080000000 | 80 | 0,9 | 745 | 3 | 95 | 20 | 0,224 | F2 W2 076.0 090.0 |
| N9ET090000000* | 90 | 0,9 | 835 | 2,5 | 105 | 20 | 0,281 | - |
| N9ET100000000* | 100 | 0,9 | 855 | 2 | 135 | 20 | 0,309 | - |
| N9ET102000000 | 102 | 0,9 | 870 | 2 | 135 | 20 | 0,315 | - |
| N9ET110000000* | 110 | 0,9 | 905 | 2 | 145 | 20 | 0,507 | - |
| N9ET120000000 | 120 | 0,9 | 985 | 1,5 | 160 | 20 | 0,550 | F2 W2 100.0 127.0 |
| N9ET127000000* | 127 | 0,9 | 1040 | 1,5 | 210 | 20 | 0,581 | - |
| N9ET140000000* | 140 | 0,9 | 1200 | 1 | 185 | 20 | 0,638 | - |
| N9ET152000000* | 152,4 | 0,9 | 1305 | 1 | 230 | 20 | 0,820 | - |
| N9ET160000000* | 160 | 0,9 | 1370 | 1 | 250 | 20 | 0,859 | F2 W2 130.0 190.0 |
| N9ET180000000* | 180 | 0,9 | 2165 | 0,5 | 270 | 20 | 0,969 | - |
| N9ET203000000* | 203,2 | 0,9 | 2435 | 0,5 | 300 | 15 | 1,087 | F2 W2 200.0 230.0 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% umidity.

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NEXT 15 ET



ES **Tubo transparente de TPU a base de éter reforzado con espiral de acero INOX AISI 302** recubierta de TPU, para garantizar una óptima adhesión con la pared y asegurar la máxima seguridad en uso. Superficie interna completamente lisa para optimizar el paso de gránulos y optimizar el flujo del material transportado; espesor de pared de 1,5 mm constante para todos los diámetros. Realizado con un TPU especial dotado de características combinadas que convierten el material de la pared en antiestático permanente (10^9 Ohm/metro), y resistente a los ataques de microbio, a la hidrólisis. Robusto pero ligero y flexible, también es adecuado para trabajos pesados y mantiene una gran flexibilidad incluso a bajas temperaturas. Sin olor, no altera las propiedades organolépticas de los productos transportados. Excelente resistencia a los aceites minerales, el envejecimiento, los rayos UV, la intemperie, el ozono y muchos otros productos químicos. El tubo puede volverse en conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Alimentario según UE 10/2011 (clases A, B, C, D1, D2, E) y FDA CFR 21-Item 177.2600.

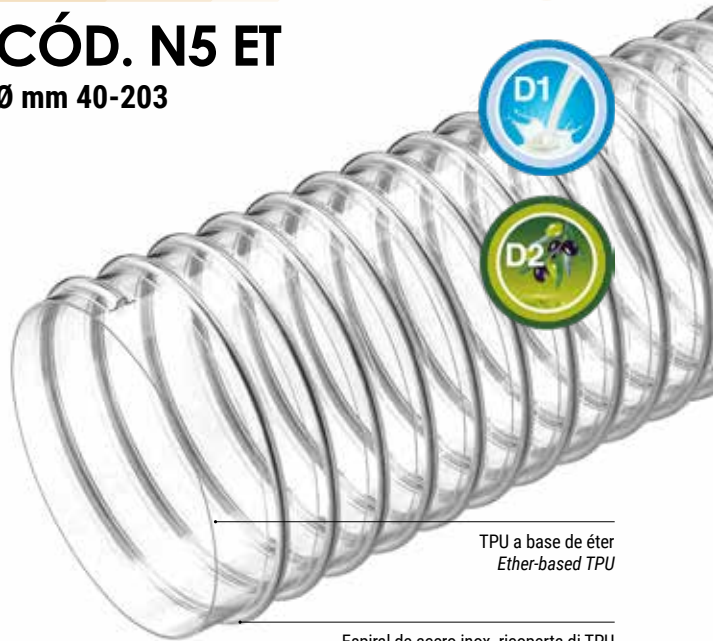
• Aspiración de material altamente abrasivo en las industrias alimentaria y farmacéutica. Puede ser usado en la industria química y para todas las aplicaciones que necesiten de una resistencia a la acción microbica. Utilizado en la industria del plástico para el transporte de gránulos para la producción de manufacturados destinados al contacto con alimentos.

EN **Transparent ether based TPU hose reinforced with a TPU-coated AISI 302 INOX steel spiral**, to offer the best adhesion with the hose wall. Completely smooth inside to ensure optimization of flow properties. Constant wall thickness of 1,5 mm for the whole diameter range. It is made by a special TPU that combines different properties which make the wall material permanent antistatic ($R < 10^9$ Ohm/m). Resistant to microbes and Hydrolysis. Strong but very light and flexible even at low temperatures, it is suitable for heavy duty applications where a very good abrasion resistance is required. Good resistance to mineral oils and chemicals, ageing, UV rays, ozone and weathering. Food grade, in accordance with EU 10/2011 (classes A, B, C, D1, D2, E) and with FDA CFR 21-177.2600. The hose can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral.

• Suction of highly abrasive media in the food and pharmaceutical industries. Used in chemical industry and for all those applications where a special microbes resistance is required. Mainly used in plastic industry for the suction of granulates for products intended to come into contact with foodstuff. Installed on street cleaning vehicles.

CÓD. N5 ET

Ø mm 40-203



TPU a base de éter
Ether-based TPU

Espiral de acero inox ricoperta di TPU
TPU coated stainless steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. | ABRAZADERAS DOBLE PUENTE W2 |
|--------------------------------|----------------|--------|--------------|--------|--------------------|--------------|------------|----------------|-----------------------------|
| | CODE | Ø INT. | MIN WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. | DOUBLE BRIDGE W2 |
| | | mm | mm | g/m | m H ₂ O | mm | m | m ³ | |
| | N5ET040000000* | 40 | 1,5 | 415 | 9,5 | 90 | 30 | 0,122 | - |
| | N5ET045000000* | 45 | 1,5 | 540 | 9 | 90 | 30 | 0,137 | - |
| | N5ET052000000 | 50,8 | 1,5 | 590 | 9 | 90 | 30 | 0,189 | - |
| | N5ET060000000* | 60 | 1,5 | 705 | 8,5 | 95 | 30 | 0,219 | - |
| | N5ET063000000 | 63,5 | 1,5 | 785 | 8 | 100 | 30 | 0,312 | - |
| | N5ET065000000* | 65 | 1,5 | 800 | 7,5 | 100 | 30 | 0,319 | - |
| | N5ET076000000 | 76,2 | 1,5 | 965 | 7 | 110 | 30 | 0,370 | - |
| | N5ET080000000 | 80 | 1,5 | 1010 | 6 | 110 | 30 | 0,386 | F2 W2 076.0 090.0 |
| | N5ET090000000* | 90 | 1,5 | 1130 | 5 | 115 | 20 | 0,286 | - |
| | N5ET100000000* | 100 | 1,5 | 1155 | 4 | 120 | 20 | 0,315 | - |
| | N5ET102000000 | 102 | 1,5 | 1175 | 4 | 120 | 20 | 0,321 | - |
| | N5ET110000000* | 110 | 1,5 | 1265 | 3,2 | 130 | 20 | 0,516 | F2 W2 100.0 127.0 |
| | N5ET120000000 | 120 | 1,5 | 1310 | 3 | 150 | 20 | 0,559 | - |
| | N5ET127000000* | 127 | 1,5 | 1380 | 2,9 | 150 | 20 | 0,589 | - |
| | N5ET140000000* | 140 | 1,5 | 1705 | 2,4 | 170 | 20 | 0,649 | - |
| | N5ET152000000* | 152,4 | 1,5 | 1850 | 2 | 200 | 20 | 0,833 | F2 W2 130.0 190.0 |
| | N5ET160000000* | 160 | 1,5 | 1940 | 1,8 | 250 | 20 | 0,871 | - |
| | N5ET180000000* | 180 | 1,5 | 2175 | 1,5 | 300 | 20 | 0,974 | - |
| | N5ET203000000* | 203,2 | 1,5 | 2770 | 1,2 | 300 | 15 | 1,096 | F2 W2 200.0 230.0 |

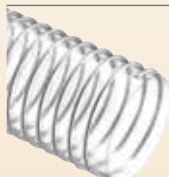


F2 W2 p.122
Abrazaderas doble puente W2 / Double bridge W2

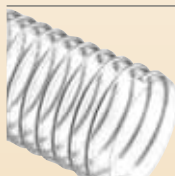
ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



NEXT 15 (cód. N5) p.30



NEXT 07 ET (cód. N7 ET) p.90



NEXT 09 ET (cód. N9 ET) p.91

*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% umidity.

IPL se reserva el derecho a realizar cambios en la información aquí contenida y/o a interrumpir un producto sin previo aviso. We reserve the right either to alter specifications and discontinue products without prior notice.

EOLO PU FOOD



Tubo transparente con pared de TPU a base de éter, con espiral de refuerzo de PVC rígido antichoque color marfil. Interno perfectamente liso. Externo corrugado; muy ligero y maneable, presenta una notable resistencia a la abrasión, a la flexión, a los ataques microbianos y a los procesos de hidrólisis. Espesor de pared de 0,4 mm a 0,8 mm. Alimentaria según Reg. UE 10/2011 (clases A, B, C, D2, E) y FDA CFR 21-Item 177.2600. Espiral con calidad alimentaria. Versión antiestática con hilo de cobre según pedido (cód EU 02).

• Industria alimentaria: aspiración ligera de polvo alimentario, semillas, harina, azúcar, granos y sustancias abrasivas. Apto para el transporte de alimentos grasos. En agricultura, se utiliza en sembradoras, máquinas combinadas y vehículos agrícolas en general.



Transparent ether based TPU wall, reinforced with an ivory anti-shock rigid PVC spiral. Smooth inside, corrugated outside. Wall thickness from 0,4 mm to 0,8 mm. Excellent resistance to abrasion and flexion as well as to microbes and Hydrolysis, this hose features high mechanical properties. Light and extremely flexible. Food grade according to FDA Reg. Cfr 21-17.2600 and to EU Reg. 10/2011 (classes A, B, C, D2, E). Food grade spiral. AS version with copper wire available on request (Cod. EU 02).

• Light suction of food flours, seeds, powders, sugar, granules and foodstuff in general with a limited abrasion power. Suitable for fatty foods. In agriculture, used on seed drills, combined machines and agricultural vehicles in general.

CÓD. EU

Ø mm 13-305



TPU a base de éter
Ether-based TPU

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



FICHA TÉCNICA · TECHNICAL DATA

JP en stock
available on stock

0,4-0,8

+80°C
-40°C

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO PUP FOOD (cód. EP) p.94



ZEUS PU FOOD (cód. ZE) p.95

| CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|-----------------|--------|--------------|--------------|--------|--------------------|--------------|------------|----------------|
| CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| EU010130000000* | 13 | 0,4 | 2,8 | 80 | 2,5 | 20 | 20 | 0,013 |
| EU010160000000* | 16 | 0,4 | 2,8 | 100 | 2,5 | 25 | 20 | 0,018 |
| EU010190000000* | 19,1 | 0,4 | 2,8 | 110 | 2,5 | 25 | 20 | 0,022 |
| EU010200000000 | 20 | 0,4 | 2,8 | 120 | 2,5 | 25 | 20 | 0,024 |
| EU010220000000* | 22 | 0,4 | 2,8 | 130 | 2,5 | 28 | 20 | 0,028 |
| EU010250000000 | 25 | 0,4 | 2,8 | 150 | 2,5 | 30 | 20 | 0,034 |
| EU010300000000 | 30 | 0,4 | 2,8 | 170 | 2,5 | 35 | 20 | 0,051 |
| EU010320000000 | 31,8 | 0,4 | 2,9 | 190 | 2 | 35 | 20 | 0,054 |
| EU010350000000 | 35 | 0,5 | 3 | 210 | 2 | 45 | 20 | 0,059 |
| EU010380000000 | 38,1 | 0,5 | 3,1 | 240 | 2 | 50 | 20 | 0,064 |
| EU010400000000 | 40 | 0,5 | 3,1 | 260 | 2 | 60 | 20 | 0,067 |
| EU010450000000 | 45 | 0,5 | 3,2 | 300 | 2 | 65 | 20 | 0,099 |
| EU010500000000* | 50 | 0,5 | 3,4 | 350 | 2 | 70 | 20 | 0,109 |
| EU010520000000 | 50,8 | 0,5 | 3,4 | 350 | 2 | 70 | 20 | 0,111 |
| EU010550000000* | 55 | 0,5 | 3,6 | 410 | 2 | 75 | 20 | 0,119 |
| EU010600000000 | 60 | 0,5 | 3,8 | 490 | 1,6 | 80 | 20 | 0,130 |
| EU010630000000 | 63,5 | 0,5 | 3,9 | 540 | 1,6 | 80 | 20 | 0,183 |
| EU010650000000* | 65 | 0,5 | 3,9 | 550 | 1,6 | 90 | 20 | 0,186 |
| EU010700000000 | 70 | 0,6 | 4,2 | 590 | 1,6 | 95 | 30 | 0,339 |
| EU010760000000 | 76,2 | 0,6 | 4,2 | 640 | 1,6 | 100 | 30 | 0,365 |
| EU010800000000 | 80 | 0,6 | 4,5 | 680 | 1,6 | 110 | 30 | 0,384 |
| EU010900000000 | 90 | 0,6 | 4,6 | 790 | 1,4 | 125 | 30 | 0,429 |
| EU011000000000 | 100 | 0,6 | 4,8 | 850 | 1,3 | 140 | 30 | 0,631 |
| EU011020000000 | 102 | 0,6 | 4,8 | 870 | 1,3 | 140 | 30 | 0,643 |
| EU011100000000 | 110 | 0,6 | 5,1 | 1000 | 1,2 | 150 | 30 | 0,692 |
| EU011200000000 | 120 | 0,6 | 5,4 | 1190 | 1 | 160 | 30 | 0,753 |
| EU011270000000 | 127 | 0,6 | 5,4 | 1260 | 1 | 170 | 30 | 0,794 |
| EU011300000000 | 130 | 0,7 | 5,7 | 1440 | 0,9 | 170 | 20 | 0,611 |
| EU011400000000 | 140 | 0,7 | 5,7 | 1540 | 0,9 | 180 | 20 | 0,654 |
| EU011500000000 | 151,5 | 0,7 | 5,8 | 1600 | 0,8 | 200 | 20 | 0,939 |
| EU011520000000 | 152,4 | 0,7 | 5,8 | 1610 | 0,8 | 200 | 20 | 0,945 |
| EU011600000000 | 160 | 0,7 | 7,2 | 2050 | 0,7 | 220 | 20 | 0,893 |
| EU011800000000 | 180 | 0,7 | 7,2 | 2300 | 0,4 | 250 | 20 | 1,493 |
| EU012000000000 | 200 | 0,7 | 7,2 | 2370 | 0,4 | 260 | 20 | 1,647 |
| EU012030000000* | 203,2 | 0,7 | 7,2 | 2410 | 0,4 | 260 | 20 | 1,671 |
| EU012500000000 | 250 | 0,8 | 8 | 3570 | 0,4 | 300 | 10 | 1,362 |
| EU013000000000 | 300 | 0,8 | 8,2 | 4450 | 0,3 | 350 | 10 | 1,620 |
| EU013050000000* | 304,8 | 0,8 | 8,2 | 4520 | 0,3 | 350 | 10 | 1,645 |

ARTÍCULOS JP (VERSIÓN ANTIESTÁTICA) / JP AS VERSION ITEMS

| | | | | | | | | |
|----------------|------|-----|-----|-----|-----|-----|----|-------|
| EU020400000000 | 40 | 0,5 | 3,1 | 320 | 2 | 60 | 20 | 0,067 |
| EU020520000000 | 50,8 | 0,5 | 3,4 | 420 | 2 | 70 | 20 | 0,111 |
| EU020600000000 | 60 | 0,5 | 3,8 | 570 | 1,6 | 80 | 20 | 0,130 |
| EU021000000000 | 100 | 0,6 | 4,8 | 960 | 1,3 | 140 | 30 | 0,631 |

*Disponibile bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities.
Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% humidity.

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We reserve the right either to alter specifications and discontinue products without prior notice

EOLO PUP FOOD



ES Tubo transparente con pared de TPU a base de éter, con espiral de refuerzo de PVC rígido antichoque color marfil. Interno perfectamente liso. Externo corrugado; muy ligero y maneable, presenta una notable resistencia a la abrasión, a la flexión, a los ataques microbianos y a los procesos de hidrólisis. Espesor de pared de 0,8 mm a 1,2 mm. Alimentario según UE 10/2011 (clases A, B, C, D2, E) y FDA CFR 21-177.2600. Espiral con calidad alimentaria. Versión antiestática con hilo de cobre según pedido (cód. EU 02).

- Industria alimentaria: aspiración media de polvo, semillas, harina, azúcar, granos y sustancias alimenticias abrasivas. Adecuado para alimentos grasos, también se utiliza en piscicultura, para el transporte de pescado. En agricultura, se utiliza en sembradoras, máquinas combinadas y vehículos agrícolas en general.

EN Transparent ether based TPU wall, reinforced with an ivory, anti-shock rigid PVC spiral. Smooth inside, corrugated outside. Wall thickness from 0,8 mm to 1,2 mm. Light, flexible, extremely resistant to abrasion, microbes, Hydrolysis and flexion, this hose features high mechanical properties. Food grade, according to FDA CFR 21-Item 177.2600 and to EU 10/2011 (classes A, B, C, D2, E). Food grade spiral. The AS version with copper wire is available on request (Cod. EP 02).

- Medium suction of dry food such as grains, animal feed, sugar, flour and abrasive foodstuff in general. It finds a perfect application also in aquaculture, for fish handling. Suitable for fatty foods. In agriculture, used on seed drills, combined machines and agricultural vehicles in general.

CÓD. EP
Ø mm 22-305



TPU a base de éter
Ether-based TPU

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral

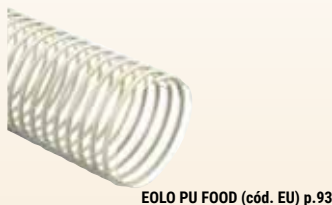


| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | VACIO | R. CURVATURA | LG. ROLLO | VOL. |
|--------------------------------|-----------------|--------|--------------|--------------|--------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | VACUUM | BENDING | COIL LGTH. | VOL. |
| | | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| | EP010220000000* | 22 | 0,8 | 3,3 | 190 | 3,5 | 80 | 30 | 0,041 |
| | EP010250000000* | 25 | 0,8 | 3,3 | 220 | 3,5 | 80 | 30 | 0,057 |
| | EP010300000000* | 30 | 0,8 | 3,3 | 260 | 3,5 | 100 | 30 | 0,070 |
| | EP010320000000* | 31,8 | 0,8 | 3,3 | 270 | 3 | 110 | 30 | 0,074 |
| | EP010350000000* | 35 | 0,8 | 3,5 | 300 | 3 | 120 | 30 | 0,081 |
| | EP010380000000 | 38,1 | 0,8 | 3,5 | 320 | 3 | 130 | 30 | 0,087 |
| | EP010390000000* | 39 | 0,8 | 3,5 | 330 | 3 | 135 | 30 | 0,118 |
| | EP010400000000 | 40 | 1 | 3,6 | 370 | 3 | 140 | 30 | 0,121 |
| | EP010450000000* | 45 | 1 | 3,9 | 470 | 3 | 160 | 30 | 0,152 |
| | EP010500000000* | 50 | 1 | 4,3 | 570 | 3 | 175 | 30 | 0,169 |
| | EP010520000000 | 50,8 | 1 | 4,3 | 580 | 3 | 175 | 30 | 0,171 |
| | EP010550000000* | 55 | 1 | 4,3 | 630 | 3 | 190 | 30 | 0,183 |
| | EP010600000000 | 60 | 1 | 4,3 | 680 | 3 | 200 | 30 | 0,198 |
| | EP010630000000 | 63,5 | 1 | 4,3 | 720 | 3 | 230 | 30 | 0,311 |
| | EP010650000000* | 65 | 1 | 4,3 | 740 | 3 | 230 | 30 | 0,318 |
| | EP010700000000 | 70 | 1 | 4,8 | 800 | 3 | 250 | 30 | 0,344 |
| | EP010760000000 | 76,2 | 1 | 4,8 | 870 | 2,5 | 270 | 30 | 0,371 |
| | EP010800000000 | 80 | 1 | 5,2 | 970 | 2,5 | 290 | 30 | 0,391 |
| | EP010900000000 | 90 | 1 | 5,4 | 1140 | 2,5 | 360 | 30 | 0,581 |
| | EP011000000000 | 100 | 1 | 5,9 | 1340 | 2,5 | 400 | 30 | 0,644 |
| | EP011020000000 | 102 | 1 | 5,9 | 1360 | 2,5 | 400 | 30 | 0,655 |
| | EP011100000000* | 110 | 1 | 6,1 | 1480 | 2,5 | 440 | 30 | 0,938 |
| | EP011200000000 | 120 | 1 | 6,1 | 1610 | 2,5 | 470 | 30 | 1,015 |
| | EP011270000000 | 127 | 1 | 6,1 | 1700 | 2,5 | 500 | 30 | 1,069 |
| | EP011300000000* | 130 | 1 | 6,1 | 1740 | 2,5 | 520 | 30 | 1,092 |
| | EP011400000000* | 140 | 1 | 6,2 | 1910 | 2 | 570 | 30 | 1,170 |
| | EP011500000000 | 151,5 | 1 | 6,6 | 2130 | 2 | 600 | 20 | 1,265 |
| | EP011520000000* | 152,4 | 1 | 6,6 | 2140 | 2 | 600 | 20 | 1,272 |
| | EP011600000000* | 160 | 1 | 7,4 | 2310 | 2 | 600 | 20 | 1,342 |
| | EP011800000000* | 180 | 1 | 7,4 | 2590 | 0,4 | 250 | 20 | 1,496 |
| | EP012030000000* | 203,2 | 1,2 | 9,4 | 3180 | 1 | 400 | 20 | 1,705 |
| | EP012540000000* | 254 | 1,2 | 9,4 | 3950 | 1 | 500 | 10 | 1,397 |
| | EP013050000000* | 304,8 | 1,2 | 9,4 | 4710 | 0,8 | 610 | 10 | 1,657 |

JP
en stock
available on stock

0,8-1,2
+80°C
-40°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ARTÍCULOS JP (VERSIÓN ANTIESTÁTICA) / JP AS VERSION ITEMS

| | | | | | | | | |
|----------------|------|---|-----|-----|---|-----|----|-------|
| EP020400000000 | 40 | 1 | 3,6 | 440 | 3 | 140 | 30 | 0,121 |
| EP020520000000 | 50,8 | 1 | 4,3 | 650 | 3 | 175 | 30 | 0,171 |

ZEUS PU FOOD



ES Tubo transparente con pared de TPU a base de éter, con espiral de refuerzo de PVC rígido antichoque color marfil.

Interno perfectamente liso. Externo corrugado; muy ligero y maneable, presenta una notable resistencia a la abrasión, a la flexión, a los ataques microbianos y a los procesos de hidrólisis. Espesor de pared de 1,2 mm a 2,0 mm. Alimentario según UE 10/2011 (clases A, B, C, D2, E) y FDA CFR 21-177.2600. Espiral con calidad alimentaria. Versión antiestática con hilo de cobre según pedido (cód. ZE 02).

• Industria alimentaria: Aspiración de polvo, semillas, harina, azúcar, granos, fruta seca y sustancias alimentarias con alto poder abrasivo. Apto para el transporte de alimentos grasos. En agricultura, se utiliza en sembradoras, máquinas combinadas y vehículos agrícolas en general.

EN Transparent ether based food grade TPU wall, reinforced with an ivory, anti-shock rigid PVC spiral.

Smooth inside, corrugated outside. Light and flexible. Wall thickness from 1,2 mm to 2,0 mm. Resistant to Hydrolysis, microbes attacks, abrasion and flexion, this hose features high mechanical properties. Food grade, according to FDA CFR 21-Item 17.2600 and to EU 10/2011 (classes A, B, C, D2, E). Food grade spiral. The AS version with copper wire is available on request (Cod. ZE 02).

• Suction and delivery of food grade powders, animal feed, granules and grains different size and abrasion power, such as sugar, salt and dry fruit. Suitable for fatty food. In agriculture, used on seed drills, combined machines and agricultural vehicles in general.

CÓD. ZE
Ø mm 30-151,5

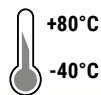


TPU a base de éter
Ether-based TPU

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



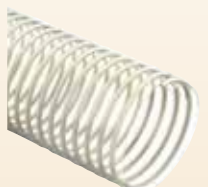
FICHA TÉCNICA · TECHNICAL DATA



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



EOLO PUP FOOD (cód. EP) p.94



EOLO PU FOOD (cód. EU) p.93

| CÓDIGO CODE | Ø INT. Ø INT. | MIN ESP. MIN WALL TH. | MAX ESP. MAX WALL TH. | PESO WEIGHT | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOL. VOL. |
|-----------------|------------------|--------------------------|--------------------------|----------------|--------------------|-------------------------|-------------------------|----------------|
| | mm | mm | mm | g/m | m H ₂ O | mm | m | m ³ |
| ZE010300000000* | 30 | 1,2 | 3,7 | 330 | 9 | 130 | 30 | 0,072 |
| ZE010320000000 | 31,8 | 1,2 | 3,8 | 370 | 9 | 140 | 30 | 0,076 |
| ZE010350000000* | 35 | 1,3 | 4 | 410 | 9 | 160 | 30 | 0,083 |
| ZE010380000000 | 38,1 | 1,3 | 4 | 440 | 9 | 180 | 30 | 0,118 |
| ZE010400000000 | 40 | 1,5 | 4,3 | 530 | 9 | 190 | 30 | 0,124 |
| ZE010450000000* | 45 | 1,5 | 4,4 | 610 | 8 | 200 | 30 | 0,155 |
| ZE010500000000* | 50 | 1,5 | 4,8 | 730 | 8 | 215 | 30 | 0,172 |
| ZE010520000000 | 50,8 | 1,5 | 4,8 | 740 | 8 | 215 | 30 | 0,174 |
| ZE010550000000* | 55 | 1,5 | 4,9 | 820 | 8 | 225 | 30 | 0,187 |
| ZE010570000000* | 57 | 1,5 | 4,9 | 850 | 8 | 225 | 30 | 0,192 |
| ZE010600000000 | 60 | 1,5 | 5 | 920 | 8 | 230 | 30 | 0,302 |
| ZE010630000000 | 63,5 | 1,5 | 5 | 970 | 8 | 240 | 30 | 0,318 |
| ZE010650000000* | 65 | 1,5 | 5 | 990 | 8 | 240 | 30 | 0,324 |
| ZE010700000000 | 70 | 1,5 | 5,3 | 1020 | 8 | 250 | 30 | 0,348 |
| ZE010760000000 | 76,2 | 1,7 | 5,5 | 1200 | 8 | 270 | 30 | 0,377 |
| ZE010800000000 | 80 | 2 | 5,9 | 1350 | 7 | 290 | 30 | 0,397 |
| ZE010900000000 | 90 | 2 | 5,9 | 1510 | 7 | 380 | 30 | 0,782 |
| ZE011000000000 | 100 | 2 | 6,3 | 1710 | 7 | 420 | 30 | 0,865 |
| ZE011020000000 | 102 | 2 | 6,3 | 1740 | 7 | 420 | 30 | 0,880 |
| ZE011100000000* | 110 | 2 | 7,6 | 2340 | 6,5 | 450 | 30 | 0,962 |
| ZE011200000000 | 120 | 2 | 7,6 | 2540 | 6,5 | 480 | 30 | 1,038 |
| ZE011270000000 | 127 | 2 | 7,6 | 2680 | 6,5 | 530 | 30 | 1,092 |
| ZE011500000000 | 151,5 | 2 | 8,1 | 3280 | 6 | 800 | 20 | 1,342 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES **Tubo transparente de PVC-P reforzado con espiral de acero.** Superficie interna lisa para favorecer el paso del las substancias y para facilitar la limpieza y la desinfección después del uso. Transparente para una fácil identificación de los materiales transportados. Resistente a los agentes atmosféricos, el envejecimiento y a numerosos productos químicos. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Idóneo para el transporte de alimentos según UE 10/2011 (clase A, B, C).

- Aspiración y transporte de líquidos alimentarios, bebidas, zumos de fruta, vinagre, vino y licores con concentraciones alcohólicas de hasta el 20%. También se utiliza en máquinas de envasado y dosificación. En agricultura, se utiliza en motobombas para la aspersión de líquidos de uso común en el sector.

EN **Transparent hose produced with PVC-P and reinforced with steel spiral.** Smooth inside to enhance the flow properties and to allow an easy cleaning after use. Clear wall for an easy detection of the media transferred. Resistant to several chemicals and to weathering. It can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral. Suitable to deliver foodstuffs, according to EU 10/2011 (classes A, B, C).

- Ideal solution for suction and delivery of food liquids, beverages, fruit juices, wine and liquors with up to 20% alcohol content. It is often used for filling machines and dispensers. In agriculture, it is used on motor pumps, for spraying liquids commonly used in the sector.

CÓD. PY 01

Ø mm 6-151



Tubo en PVC-P
PVC-P hose

Espiral de acero
Steel spiral



FICHA TÉCNICA · TECHNICAL DATA

JP
en stock
available on stock

+60°C
-10°C

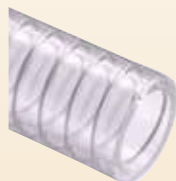


CLAMP BS 4825 p.123

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



PLUTONE A SE (cód. PY 06) p.27



PLUTONE BIO (cód. B2) p.100

| CÓDIGO CODE | Ø INT. Ø INT. | Ø EST. Ø OUT. | PESO WEIGHT | P.T. W.P. | P.R. B.P. | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOLUMEN VOLUME |
|-----------------|------------------|------------------|----------------|--------------|--------------|--------------------|-------------------------|-------------------------|-------------------|
| | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| PY010060012200 | 6 | 12,2 | 130 | 5 | 25 | 9,5 | 30 | 60 | 0,019 |
| PY010080014200 | 8 | 14,2 | 155 | 5 | 25 | 9,5 | 40 | 60 | 0,024 |
| PY010100016000 | 10 | 16 | 170 | 5 | 25 | 9,5 | 50 | 60 | 0,028 |
| PY010120018000 | 12 | 18 | 200 | 5 | 25 | 9,5 | 50 | 60 | 0,033 |
| PY010130019000* | 13 | 19 | 210 | 5 | 25 | 9,5 | 60 | 60 | 0,038 |
| PY010140020000 | 14 | 20 | 225 | 5 | 25 | 9,5 | 60 | 60 | 0,039 |
| PY010160022400 | 16 | 22,4 | 270 | 5 | 25 | 9,5 | 70 | 60 | 0,048 |
| PY010180024400 | 18 | 24,4 | 295 | 5 | 25 | 9,5 | 80 | 60 | 0,070 |
| PY010190026000* | 19 | 26 | 335 | 5 | 25 | 9,5 | 90 | 60 | 0,075 |
| PY010200026000* | 20 | 26 | 300 | 5 | 25 | 9,5 | 90 | 60 | 0,083 |
| PY010200027000 | 20 | 27 | 350 | 5 | 25 | 9,5 | 90 | 60 | 0,086 |
| PY010220029000 | 22 | 29 | 380 | 5 | 25 | 9,5 | 100 | 60 | 0,093 |
| PY010250033000 | 25 | 33 | 505 | 4 | 20 | 9,5 | 110 | 60 | 0,127 |
| PY010300038000 | 30 | 38 | 590 | 4 | 20 | 8,5 | 140 | 60 | 0,146 |
| PY010320040400 | 32 | 40,4 | 650 | 4 | 20 | 8,5 | 140 | 60 | 0,155 |
| PY010350043400 | 35 | 43,4 | 705 | 4 | 20 | 8,5 | 160 | 60 | 0,167 |
| PY010380047000 | 38 | 47 | 810 | 4 | 20 | 8,5 | 170 | 30 | 0,120 |
| PY010400049000 | 40 | 49 | 850 | 4 | 20 | 8,5 | 180 | 30 | 0,125 |
| PY010450054800 | 45 | 54,8 | 1105 | 4 | 20 | 8 | 200 | 30 | 0,175 |
| PY010500060000 | 50 | 60 | 1240 | 4 | 20 | 8 | 230 | 30 | 0,259 |
| PY010508060800* | 50,8 | 60,8 | 1260 | 4 | 20 | 8 | 230 | 30 | 0,263 |
| PY010600071800 | 60 | 71,8 | 1710 | 3,6 | 18 | 8 | 270 | 30 | 0,310 |
| PY010630074800 | 63 | 74,8 | 1805 | 3,6 | 18 | 8 | 280 | 30 | 0,323 |
| PY010650076800* | 65 | 76,8 | 1860 | 3,6 | 18 | 7,5 | 290 | 30 | 0,332 |
| PY010700082000 | 70 | 82 | 2020 | 3,6 | 18 | 7 | 320 | 30 | 0,354 |
| PY010760088200 | 76 | 88,2 | 2215 | 3,6 | 18 | 7 | 340 | 30 | 0,508 |
| PY010800092200 | 80 | 92,2 | 2350 | 3,6 | 18 | 7 | 360 | 20 | 0,398 |
| PY010900103000 | 90 | 103 | 3005 | 3 | 15 | 7 | 410 | 20 | 0,527 |
| PY011020115000 | 102 | 115 | 3375 | 2,4 | 12 | 7 | 460 | 20 | 0,589 |
| PY011050118000* | 105 | 118 | 3470 | 2,4 | 12 | 7 | 470 | 20 | 0,604 |
| PY011100127400 | 110 | 127,4 | 4800 | 1,6 | 8 | 9 | 550 | 20 | 0,652 |
| PY011200137400 | 120 | 137,4 | 5205 | 1,2 | 6 | 9 | 600 | 20 | 1,055 |
| PY011270144400 | 127 | 144,4 | 5540 | 1,2 | 6 | 9 | 640 | 20 | 1,109 |
| PY011500168600 | 151 | 169,6 | 6910 | 1,2 | 6 | 9 | 760 | 20 | 1,303 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

PLUTONE A SE



ES

Tubo transparente de PVC-P superelástico reforzado con espiral de acero. Elevada flexibilidad. Superficie interna lisa para favorecer el paso de las substancias y para facilitar la limpieza y la desinfección después del uso. Transparente para una fácil identificación de los materiales transportados. Resistente a los agentes atmosféricos, el envejecimiento y a numerosos productos químicos. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Idóneo para el transporte de alimentos según UE 10/2011 (clases A, B, C).

- Aspiración e impulsión de líquidos alimentarios, bebidas, zumos de fruta, vinagre, vino y licores con concentraciones alcohólicas de hasta el 20%. También se utiliza en máquinas de envasado y dosificación. En agricultura, se utiliza en motobombas para la aspersión de líquidos de uso común en el sector.

EN

Super flexible transparent hose, produced with PVC-P and reinforced with steel spiral. Smooth inside to enhance the flow properties and to allow an easy cleaning after use. Clear wall for an easy detection of the media transferred. Resistant to several chemicals and to weathering. It can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral. Food grade, according to EU 10/2011 (classes A, B, C).

- Ideal solution for suction and delivery of food liquids, beverages, fruit juices, wine and liquors with up to 20% alcohol content. It is often used for filling machines and dispensers. In agriculture, it is used on motor pumps, for spraying liquids commonly used in the sector.

CÓD. PY 06
Ø mm 6-151



Tubo en PVC-P
PVC-P hose

Espiral de acero
Steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | L.G. ROLLO | VOLUMEN |
|--------------------------------|--|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | | PY060060012200 | 6 | 12,2 | 125 | 4 | 20 | 9,5 | 20 | 60 | 0,019 |
| | | PY060080014200 | 8 | 14,2 | 150 | 4 | 20 | 9,5 | 30 | 60 | 0,024 |
| | | PY060100016000 | 10 | 16 | 170 | 4 | 20 | 9,5 | 40 | 60 | 0,028 |
| | | PY060120018000 | 12 | 18 | 195 | 4 | 20 | 9,5 | 40 | 60 | 0,033 |
| | | PY060130019000* | 13 | 19 | 210 | 4 | 20 | 9,5 | 50 | 60 | 0,038 |
| | | PY060140020000 | 14 | 20 | 220 | 4 | 20 | 9,5 | 50 | 60 | 0,039 |
| | | PY060160022400 | 16 | 22,4 | 265 | 4 | 20 | 9,5 | 60 | 60 | 0,048 |
| | | PY060180024400 | 18 | 24,4 | 290 | 4 | 20 | 9,5 | 60 | 60 | 0,070 |
| | | PY060190026000* | 19 | 26 | 330 | 4 | 20 | 9,5 | 70 | 60 | 0,075 |
| | | PY060200027000 | 20 | 27 | 345 | 4 | 20 | 9,5 | 70 | 60 | 0,086 |
| | | PY060220029000 | 22 | 29 | 375 | 4 | 20 | 9,5 | 80 | 60 | 0,093 |
| | | PY060250033000 | 25 | 33 | 495 | 3 | 15 | 9,5 | 90 | 60 | 0,127 |
| | | PY060300038000 | 30 | 38 | 580 | 3 | 15 | 8,5 | 110 | 60 | 0,146 |
| | | PY060320040400 | 32 | 40,4 | 640 | 3 | 15 | 8,5 | 110 | 60 | 0,155 |
| | | PY060350043400 | 35 | 43,4 | 690 | 3 | 15 | 8,5 | 120 | 60 | 0,167 |
| | | PY060380047000 | 38 | 47 | 795 | 3 | 15 | 8,5 | 130 | 30 | 0,120 |
| | | PY060400049000 | 40 | 49 | 835 | 3 | 15 | 8,5 | 140 | 30 | 0,125 |
| | | PY060420051200* | 42 | 51,2 | 890 | 3 | 15 | 8,5 | 150 | 30 | 0,131 |
| | | PY060450054800 | 45 | 54,8 | 1090 | 3 | 15 | 8 | 160 | 30 | 0,175 |
| | | PY060500060000 | 50 | 60 | 1220 | 3 | 15 | 8 | 180 | 30 | 0,259 |
| | | PY060508060800* | 50,8 | 60,8 | 1240 | 3 | 15 | 8 | 180 | 30 | 0,263 |
| | | PY060600071800 | 60 | 71,8 | 1680 | 2,5 | 12 | 8 | 210 | 30 | 0,310 |
| | | PY060630074800 | 63 | 74,8 | 1775 | 2,5 | 12 | 8 | 220 | 30 | 0,323 |
| | | PY060650076800* | 65 | 76,8 | 1830 | 2,5 | 12 | 7 | 230 | 30 | 0,332 |
| | | PY060700082000 | 70 | 82 | 1985 | 2,5 | 12 | 7 | 250 | 30 | 0,354 |
| | | PY060760088200 | 76 | 88,2 | 2175 | 2,5 | 12 | 7 | 270 | 30 | 0,508 |
| | | PY060800092200 | 80 | 92,2 | 2310 | 2,5 | 12 | 7 | 280 | 20 | 0,398 |
| | | PY060900103000 | 90 | 103 | 2955 | 2 | 10 | 7 | 360 | 20 | 0,527 |
| | | PY061020115000 | 102 | 115 | 3325 | 1,5 | 8 | 7 | 410 | 20 | 0,589 |
| | | PY061050118000* | 105 | 118 | 3415 | 1,5 | 8 | 7 | 420 | 20 | 0,604 |
| | | PY061100127400 | 110 | 127,4 | 4725 | 1 | 5 | 9 | 500 | 20 | 0,652 |
| | | PY061200137400 | 120 | 137,4 | 5120 | 0,5 | 3 | 9 | 540 | 20 | 1,055 |
| | | PY061270144400 | 127 | 144,4 | 5455 | 0,5 | 3 | 9 | 570 | 20 | 1,109 |
| | | PY061500168600 | 151 | 169,6 | 6800 | 0,5 | 3 | 9 | 680 | 20 | 1,303 |

JP en stock
available on stock

+60°C
-10°C



CLAMP BS 4825 p.123

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



PLUTONE A (cód. PY 01) p.96



PLUTONE BIO (cód. B2) p.100

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES **Tubo transparente de TPU en base de éter con espiral de refuerzo en acero inox AISI 302**. Superficie interna y externa completamente lisas para favorecer el paso de las sustancias y para facilitar la limpieza y la desinfección antes y después del uso. El tubo puede transformarse en conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Altamente neutral a olores y sabores, preservando las propiedades organolépticas de las sustancias transportadas. Óptima resistencia a la hidrólisis y a los posibles ataques de microbios. Buena resistencia química a ácidos y soluciones alcalinas; material versátil resistente a aceites y grasas en las condiciones habituales de uso. Material curing-free: la manguera no necesita ningún proceso de vulcanización, evitando así el riesgo de extracción de residuos de vulcanización en el producto final (restos volátiles de peróxido y platino).

• Idóneo para el transporte de alimentos según UE 10/2011 (clases A, B, C, D2, E) y FDA CFR 21- 177.2600. Aspiración de líquidos, polvos y gránulos altamente abrasivos y aptos para uso alimentario. Solución ideal para transportar polvos farmacéuticos y cosméticos, píldoras, comprimidos de medicamentos; harinas, azúcar, sal, frutos secos. Adecuado para transportar líquidos alimentarios, **aceite vegetal** y alimentos grasos, líquidos farmacéuticos y cosméticos con una concentración de alcohol de hasta el 20%.

EN **Transparent ether-based TPU hose, reinforced with an AISI 302 stainless steel spiral**. Inside and outside completely smooth to enhance flow properties and allow easy cleaning and sterilization processes. It can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral. The extruded, low porosity TPU tube reduces permeation problems. Highly neutral in taste and odor, it preserves the organoleptic properties of the medium. Very good chemical resistance to acids and alkaline solutions and good impermeability. Versatile rubber resistant also to oils and fats under common use conditions. Curing-free material: Plutone PU does not need any vulcanization process, therefore it prevents the risk of leaching of curing agent residues into the end product (peroxide or platinum volatile rests). Food grade, according to EU 10/2011 (classes A,B,C, D2, E) and to FDA CFR 21- 177.2600.

• Suction of powders and highly abrasive granules. Ideal solution to convey pharmaceutical and cosmetic powders, pills, tablets of medicines; for food flours and grains, sugar, salt, dry fruit. Ideal solution to transfer **olive oil** and fatty food. Suitable also for food, pharmaceutical and cosmetic liquids with alcohol content up to max 20%.

CÓD. PQ
Ø mm 8-76



TPU a base de éter
Ether-based TPU

Espiral de acero inox
Stainless steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | L.G. ROLLO | VOLUMEN |
|--------------------------------|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | PQ010080014200* | 8 | 14,2 | 140 | 2,5 | 12,5 | 9,5 | 40 | 60 | 0,024 |
| | PQ010120018000* | 12 | 18 | 180 | 2,5 | 12,5 | 9,5 | 60 | 60 | 0,033 |
| | PQ010160022400* | 16 | 22,4 | 245 | 2,5 | 12,5 | 9,5 | 80 | 60 | 0,048 |
| | PQ010200027000* | 20 | 27 | 320 | 2,5 | 12,5 | 9,5 | 100 | 60 | 0,086 |
| | PQ010250033000 | 25 | 33 | 460 | 2 | 10 | 9,5 | 130 | 60 | 0,127 |
| | PQ010300038000* | 30 | 38 | 535 | 2 | 10 | 9,5 | 150 | 60 | 0,146 |
| | PQ010320040400* | 32 | 40,4 | 595 | 2 | 10 | 8,5 | 160 | 60 | 0,155 |
| | PQ010380047000 | 38 | 47 | 740 | 2 | 10 | 8,5 | 190 | 30 | 0,120 |
| | PQ010400049200* | 40 | 49,2 | 790 | 2 | 10 | 8,5 | 200 | 30 | 0,126 |
| | PQ010508060800 | 50,8 | 60,8 | 1165 | 1,5 | 7,5 | 8 | 250 | 30 | 0,263 |
| | PQ010600071800* | 60 | 71,8 | 1580 | 1,5 | 7,5 | 8 | 300 | 30 | 0,310 |
| | PQ010630074800* | 63 | 74,8 | 1650 | 1,5 | 7,5 | 8 | 320 | 30 | 0,323 |
| | PQ010760088200* | 76 | 88,2 | 2020 | 1,5 | 7,5 | 7 | 380 | 30 | 0,508 |

+90°C picos +125°C
-40°C



CLAMP BS 4825 p.123

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



PLUTONE PU PRESS (cód. PN) p.114

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

PLUTONE PF



Tubo de color rojo con raya blanca, de goma TPE-S higiénica, con espiral de acero y refuerzo textil. Superficies interna y externa completamente lisas para favorecer el paso de sustancias y para facilitar la limpieza y la desinfección antes y después del uso. Características de la cobertura: excelente resistencia al ozono, al envejecimiento, a los rayos UV y a los fenómenos atmosféricos. El tubo de TPE-S extruido, con mínima porosidad, reduce los riesgos de infiltración. Producto con tolerancias específicas más rigurosas respecto al equivalente en goma. Altamente neutral a olores y sabores, preservando las propiedades organolépticas de las sustancias transportadas. Material curing-free: la manguera no necesita ningún proceso de vulcanización, evitando así el riesgo de extracción de residuos de vulcanización en el producto final (restos volátiles de peróxido y platino). Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Transporte de líquidos de naturaleza alimentaria.

• Idóneo para el transporte de alimentos según UE 10/2011 (clases A, B, C, D1, E) y FDA CFR 21- 177.2600. Tubo versátil para el transporte de líquidos de calidad alimentaria. Solución ideal para vinos, zumos de frutas, vinagre, licores con un contenido alcohólico de hasta el 50%. Disponible en color azul claro (cód. de color B6), para el paso de leche y productos lácteos.



Red hygienic TPE-S hose, with an identificative white longitudinal stripe and white liner, reinforced with steel spiral and polyester thread. Inside and outside completely smooth to enhance flow properties and allow easy cleaning and sterilization processes. Produced with specific tighter tolerances than an equivalent vulcanized rubber hose. Cover features: excellent resistance to ozone, ageing, UV rays and weathering. The extruded, low porosity TPE-S tube reduces permeation problems. Highly neutral in taste and odor, it preserves the organoleptic properties of the medium. Good chemical resistance to acids and alkaline solutions and good impermeability. Versatile rubber resistant even to an alcohol concentration of 50%. Curing-free material: the production of Plutone PF does not need any vulcanization process, therefore it prevents the risk of leaching of curing agent residues into the end product (peroxide or platinum volatile rests). It can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral. Food grade, according to EU 10/2011 (Classes A, B, C, D1) and FDA CFR-21-177.2600.

• Versatile suction and delivery hose designed to convey food liquids. Suitable for a manifold range of media such as wines, fruit juices, vinegar, spirits with an alcohol content up to 50%. Available in blue version (color cod. B6) to deliver milk and dairy products.

CÓD. PF
Ø mm 14-102



Tubo en TPE-S higiénica
TPE-S hygienic rubber hose

Espiral de acero
Steel spiral

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | PF010140022000* | 14 | 22 | 245 | 19 | 57 | 10 | 40 | 60 | 0,048 |
| | PF010200029000 | 20 | 29 | 365 | 14 | 42 | 10 | 60 | 60 | 0,095 |
| | PF010250035000 | 25 | 35 | 510 | 13 | 39 | 10 | 100 | 60 | 0,146 |
| | PF010320043000 | 32 | 43 | 685 | 12 | 36 | 9 | 130 | 60 | 0,214 |
| | PF010380049000 | 38 | 49 | 800 | 10 | 30 | 9 | 150 | 30 | 0,198 |
| | PF010400051000 | 40 | 51 | 835 | 10 | 30 | 9 | 160 | 30 | 0,202 |
| | PF010500063000 | 50 | 63 | 1325 | 12 | 36 | 8 | 250 | 30 | 0,286 |
| | PF010600074000* | 60 | 74 | 1660 | 10 | 30 | 8 | 300 | 30 | 0,365 |
| | PF010630077000 | 63 | 77 | 1735 | 10 | 30 | 8 | 320 | 30 | 0,375 |
| | PF010700085000* | 70 | 85 | 1990 | 9 | 27 | 7 | 350 | 30 | 0,404 |
| | PF010760091000 | 76 | 90,8 | 2120 | 9 | 27 | 7 | 380 | 30 | 0,603 |
| | PF010800095000 | 80 | 94,8 | 2185 | 8 | 24 | 7 | 400 | 20 | 0,497 |
| | PF011020118000 | 102 | 118 | 3030 | 7 | 21 | 7 | 510 | 20 | 0,801 |

JP
en stock
available on stock

+100°C
-35°C



CLAMP BS 4825 p.123

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

PLUTONE BIO



ES Tubo transparente producido en especial Bio-compound, obtenido de fuentes naturales renovables, con espiral de refuerzo de acero. Excelente resistencia a los fenómenos atmosféricos y a numerosos productos químicos. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Idóneo para el transporte de alimentos según UE 10/2011 (clases A, B, C, D1) y FDA CFR-21-176.170. Idóneo para el transporte de leche y productos lácteos.

• Solución ideal para la aspiración y el transporte de líquidos alimentarios, leche y productos lácteos, bebidas, zumos de fruta, vinagre, vino y licores con una concentración de alcohol de hasta el 50%. También se utiliza en máquinas de envasado y dosificación.

EN Transparent hose produced with a special bio-based compound, obtained from natural sources, reinforced with steel spiral. Resistant to several chemicals and to weathering. It can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral. Food grade, according to EU 10/2011 (classes A, B, C, D1) and to FDA CFR-21-176.170. Suitable for conveying milk and dairy products.

• Ideal solution for suction and delivery of food liquids, beverages, fruit juices, wine and liquors with up to 50% alcohol concentration as well as of milk and by-products. It is often used for filling machines and dispensers.

CÓD. B2
Ø mm 6-151



Tubo in BIO compound
Bio-based compound hose

Espiral de acero
Steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|--|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ₃ |
| | | B2010060012200* | 6 | 12,2 | 135 | 5 | 25 | 10 | 30 | 60 | 0,019 |
| | | B2010080014200 | 8 | 14,2 | 160 | 5 | 25 | 10 | 40 | 60 | 0,024 |
| | | B2010100016000 | 10 | 16 | 185 | 7 | 35 | 10 | 50 | 60 | 0,028 |
| | | B2010120018000 | 12 | 18 | 210 | 7 | 35 | 10 | 50 | 60 | 0,033 |
| | | B2010130019000* | 13 | 19 | 220 | 7 | 35 | 10 | 60 | 60 | 0,038 |
| | | B2010140020000 | 14 | 20 | 235 | 7 | 35 | 10 | 60 | 60 | 0,039 |
| | | B2010160022400 | 16 | 22,4 | 280 | 7 | 35 | 10 | 70 | 60 | 0,048 |
| | | B2010180024400 | 18 | 24,4 | 300 | 6 | 30 | 10 | 80 | 60 | 0,070 |
| | | B2010190026000* | 19 | 26 | 345 | 6 | 30 | 10 | 90 | 60 | 0,075 |
| | | B2010200027000 | 20 | 27 | 360 | 6 | 30 | 10 | 90 | 60 | 0,086 |
| | | B2010220029000 | 22 | 29 | 390 | 6 | 30 | 10 | 100 | 60 | 0,093 |
| | | B2010250033000 | 25 | 33 | 515 | 6 | 30 | 10 | 110 | 60 | 0,127 |
| | | B2010300038000 | 30 | 38 | 605 | 5 | 25 | 9 | 140 | 60 | 0,146 |
| | | B2010320040400 | 32 | 40,4 | 675 | 5 | 25 | 9 | 140 | 60 | 0,155 |
| | | B2010350043400 | 35 | 43,4 | 720 | 5 | 25 | 9 | 160 | 60 | 0,167 |
| | | B2010380047000 | 38 | 47 | 830 | 5 | 25 | 9 | 170 | 30 | 0,120 |
| | | B2010400049000 | 40 | 49 | 865 | 5 | 25 | 9 | 180 | 30 | 0,125 |
| | | B2010420051200 | 42 | 51,2 | 925 | 5 | 25 | 9 | 190 | 30 | 0,131 |
| | | B2010450054800* | 45 | 54,8 | 1150 | 4 | 20 | 8,5 | 200 | 30 | 0,175 |
| | | B2010500060000 | 50 | 60 | 1290 | 4 | 20 | 8,5 | 230 | 30 | 0,259 |
| | | B2010508060800* | 50,8 | 60,8 | 1310 | 4 | 20 | 8,5 | 230 | 30 | 0,263 |
| | | B2010600071800 | 60 | 71,8 | 1770 | 3,5 | 17,5 | 8,5 | 270 | 30 | 0,310 |
| | | B2010630074800 | 63 | 74,8 | 1850 | 3,5 | 17,5 | 8,5 | 280 | 30 | 0,323 |
| | | B2010650076800* | 65 | 76,8 | 1905 | 3,5 | 17,5 | 8 | 290 | 30 | 0,332 |
| | | B2010700082000 | 70 | 82 | 2070 | 3,5 | 17,5 | 8 | 320 | 30 | 0,354 |
| | | B2010760088200 | 76 | 88,2 | 2265 | 3,5 | 17,5 | 8 | 340 | 30 | 0,508 |
| | | B2010800092200 | 80 | 92,2 | 2380 | 3,5 | 17,5 | 8 | 360 | 20 | 0,398 |
| | | B2010900103000 | 90 | 103 | 3090 | 3 | 15 | 8 | 410 | 20 | 0,527 |
| | | B2011020115000 | 102 | 115 | 3475 | 2 | 10 | 8 | 460 | 20 | 0,589 |
| | | B2011050118000* | 105 | 118 | 3635 | 2 | 10 | 8 | 470 | 20 | 0,604 |
| | | B2011100127400 | 110 | 127,4 | 4800 | 1,6 | 8 | 9 | 550 | 20 | 0,978 |
| | | B2011200137400 | 120 | 137,4 | 5205 | 1,2 | 6 | 9 | 600 | 20 | 1,055 |
| | | B2011270144400 | 127 | 144,4 | 5540 | 1,2 | 6 | 9 | 640 | 20 | 1,109 |
| | | B2011500168600 | 151 | 169,6 | 6910 | 1,2 | 6 | 9 | 760 | 20 | 1,303 |

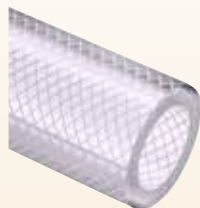
JP
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available on stock

+60°C
-10°C

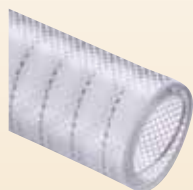


CLAMP BS 4825 p.123

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



ARIANNA BIO (cód. B1) p.102



PLUTONE PRESS BIO (cód. B3) p.101

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

PLUTONE PRESS BIO



ES Tubo transparente fabricado en especial Bio-compound, obtenido de fuentes renovables, refuerzo textil y espiral de acero. Excelente resistencia a los fenómenos atmosféricos y a numerosos productos químicos. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Idóneo para el transporte de leche y productos lácteos. Calidad alimentaria, según UE 10/2011 (clases A, B, C, D1) y FDA CFR-21-176.170.

- Solución ideal para la aspiración y el transporte de líquidos alimentarios, leche y productos lácteos, bebidas, zumos de fruta, vinagre, vino y licores con una concentración de alcohol de hasta el 50%. También se utiliza en máquinas de envasado y dosificación.

EN Transparent hose produced with a special bio-based compound, obtained from natural sources, reinforced with steel spiral and polyester yarn. Resistant to several chemicals and to weathering. It can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral. Food grade, according to EU 10/2011 (classes A,B, C, D1) and to FDA CFR-21-176.170.

- Suitable for passage of milk and dairy products. Ideal solution for suction and delivery of food liquids, beverages, fruit juices, wine and liquors with up to 50% alcohol content as well as milk and by-products. It is often used for filling machines and dispensers.

CÓD. B3
Ø mm 10-102



Tubo en BIO compound
Bio-based compound hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement

Espiral de acero
Steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUMEN |
|--------------------------------|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | B3010100018000* | 10 | 18 | 245 | 22 | 66 | 10 | 30 | 60 | 0,033 |
| | B3010120020000* | 12 | 20 | 280 | 19 | 57 | 10 | 36 | 60 | 0,039 |
| | B3010140022000* | 14 | 22 | 315 | 19 | 57 | 10 | 42 | 60 | 0,048 |
| | B3010160025000* | 16 | 25 | 395 | 18 | 54 | 10 | 48 | 60 | 0,061 |
| | B3010180027000* | 18 | 27 | 435 | 16 | 48 | 10 | 54 | 60 | 0,091 |
| | B3010200029000 | 20 | 29 | 475 | 14 | 42 | 10 | 60 | 60 | 0,106 |
| | B3010220031000* | 22 | 31 | 510 | 14 | 42 | 10 | 66 | 60 | 0,111 |
| | B3010250035000 | 25 | 35 | 655 | 12 | 36 | 10 | 75 | 60 | 0,146 |
| | B3010300040000 | 30 | 40 | 765 | 12 | 36 | 9 | 90 | 60 | 0,184 |
| | B3010320043000 | 32 | 43 | 890 | 11 | 33 | 9 | 96 | 60 | 0,214 |
| | B3010350046000 | 35 | 46 | 960 | 10 | 30 | 9 | 105 | 60 | 0,225 |
| | B3010380049000 | 38 | 49 | 1030 | 10 | 30 | 9 | 110 | 30 | 0,198 |
| | B3010400051000 | 40 | 51 | 1080 | 10 | 30 | 9 | 120 | 30 | 0,202 |
| | B3010450058000 | 45 | 58 | 1505 | 9 | 27 | 8 | 140 | 30 | 0,241 |
| | B3010500063000 | 50 | 63 | 1650 | 8 | 24 | 8 | 150 | 30 | 0,286 |
| | B3010600074000* | 60 | 74 | 2080 | 7 | 21 | 8 | 180 | 30 | 0,365 |
| | B3010630077000 | 63 | 77 | 2175 | 7 | 21 | 8 | 190 | 30 | 0,379 |
| | B3010700085000* | 70 | 85 | 2525 | 6 | 18 | 7 | 210 | 30 | 0,469 |
| | B3010760091000 | 76 | 90,8 | 2685 | 6 | 18 | 7 | 230 | 30 | 0,603 |
| | B3010800095000* | 80 | 94,85 | 2790 | 6 | 18 | 7 | 240 | 20 | 0,498 |
| | B3010900106000* | 90 | 106 | 3435 | 5 | 15 | 7 | 270 | 20 | 0,760 |
| | B3011020118000* | 102 | 118 | 3850 | 5 | 15 | 7 | 310 | 20 | 0,801 |

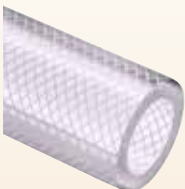
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available on stock

+60°C
-10°C



CLAMP BS 4825 p.123

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



ARIANA BIO (cód. B1) p.102



PLUTONE BIO (cód. B2) p.100

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

(ES) Tubo transparente de especial Bio-compound, obtenido de fuentes renovables naturales, reforzado con hilo de poliéster de alta tenacidad. Excelente resistencia a los fenómenos atmosféricos y a numerosos productos químicos. Idóneo para el transporte de alimentos según UE 10/2011 (clases A, B, C, D1) y FDA CFR-21-176.170. Apto para el transporte de leche y productos lácteos.

- Solución ideal para el transporte de líquidos alimentarios, leche y productos lácteos, bebidas, zumos de fruta, vinagre, vino y licores con una concentración de alcohol de hasta el 50%. También se utiliza en máquinas de envasado y dosificación.

(EN) Transparent hose produced with a special bio-based compound, obtained from natural sources and reinforced with a polyester yarn. Resistant to several chemicals and to weathering. Food grade, according to EU 10/2011 (classes A,B, C, D1) and to FDA CFR-21-176.170.

- Suitable for passage of milk and dairy products. Ideal solution for delivery of food liquids, beverages, fruit juices, wine and liquors with up to 50% alcohol content as well as milk and by-products. It is often used for filling machines and dispensers.

CÓD. B1
Ø mm 6-50



Tubo en BIO compound
Bio-based compound hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | Ø EST. | PESO | CÓDIGO P.T. | P.R. | R. CURVATURA | LG. ROLLO | VOLUMEN |
|--------------------------------|--------------------------------|-----------------|--------|--------|--------|-------------|------|--------------|------------|----------------|
| | | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | g/m | bar | bar | mm | m | m ³ |
| | en stock available on stock | B1010060011000* | 6 | 11 | 85 | 21 | 63 | 30 | 100 | 0,023 |
| | | B1010060012000 | 6 | 12 | 105 | 21 | 63 | 30 | 100 | 0,025 |
| | | B1010080013000* | 8 | 13 | 105 | 23 | 69 | 40 | 100 | 0,028 |
| | | B1010080014000 | 8 | 14 | 130 | 23 | 69 | 40 | 100 | 0,032 |
| | | B1010090015000* | 9 | 15 | 140 | 19 | 57 | 50 | 100 | 0,036 |
| | | B1010100015000* | 10 | 15 | 120 | 16 | 48 | 50 | 100 | 0,036 |
| | | B1010100016000 | 10 | 16 | 150 | 16 | 48 | 50 | 100 | 0,041 |
| | | B1010120017000* | 12 | 17 | 140 | 12 | 36 | 60 | 100 | 0,044 |
| | | B1010120018000 | 12 | 18 | 175 | 12 | 36 | 60 | 100 | 0,050 |
| | | B1010125018500* | 12,5 | 18,5 | 180 | 12 | 36 | 60 | 100 | 0,051 |
| | | B1010130018000* | 13 | 18 | 150 | 11 | 33 | 70 | 100 | 0,050 |
| | | B1010130019000 | 13 | 19 | 185 | 11 | 33 | 70 | 100 | 0,058 |
| | | B1010150020000* | 15 | 20 | 170 | 11 | 33 | 80 | 50 | 0,034 |
| | | B1010150021000* | 15 | 21 | 210 | 11 | 33 | 80 | 50 | 0,035 |
| | | B1010160021000* | 16 | 21 | 180 | 10 | 30 | 80 | 50 | 0,035 |
| | | B1010160022000 | 16 | 22 | 220 | 10 | 30 | 80 | 50 | 0,041 |
| | | B1010190025000* | 19 | 25 | 255 | 9 | 27 | 100 | 50 | 0,083 |
| | | B1010190026000 | 19 | 26 | 305 | 9 | 27 | 100 | 50 | 0,085 |
| | | B1010250032000* | 25 | 32 | 385 | 8 | 24 | 130 | 50 | 0,099 |
| | | B1010250033000 | 25 | 33 | 450 | 8 | 24 | 130 | 50 | 0,102 |
| | | B1010300038000 | 30 | 38 | 525 | 6 | 18 | 150 | 50 | 0,141 |
| | | B1010320041000* | 32 | 41 | 635 | 5 | 15 | 160 | 50 | 0,165 |
| | | B1010320042000 | 32 | 42 | 710 | 5 | 15 | 160 | 50 | 0,168 |
| | | B1010380048000 | 38 | 48 | 825 | 4 | 12 | 190 | 50 | 0,271 |
| | | B1010400050000 | 40 | 50 | 865 | 4 | 12 | 200 | 50 | 0,303 |
| | | B1010500062000 | 50 | 62 | 1290 | 4 | 12 | 250 | 50 | 0,391 |

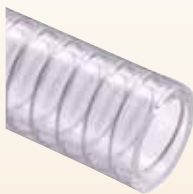
JP en stock
available on stock

+60°C
-10°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



PLUTONE PRESS BIO (cód. B3) p.101



PLUTONE BIO (cód. B2) p.100

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ARIANNA TA



(ES) Tubo de PVC-P, con refuerzo textil en poliéster de alta tenacidad. Resistente a los agentes atmosféricos y a gran parte de los productos químicos. Transparente para facilitar el control de las sustancias transportadas. Idóneo para el transporte de alimentos según UE 10/2011 (clases A, B, C).

• Tubo para el transporte de líquidos y sustancias alimentarias. También se utiliza en máquinas de envasado y dosificación. En agricultura, es la manguera de riego más utilizada.

(EN) Transparent PVC-P hose reinforced with high tenacity polyester yarn. Resistant to most chemicals and weathering. Totally clear for an easy detection of the media transferred. Food grade, according to EU 10/2011 (classes A, B, C).

• Delivery of liquids and food grade substances. It is often used for filling machines and dispensers. In agriculture, it is the most used irrigation hose.



CÓD. A5
Ø mm 6-50



Tubo en PVC-P
PVC-P hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | R. CURVATURA | LG. ROLLO | VOLUME |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|--------|--------|--------|------|------|--------------|-----------------|----------------|
| | | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | g/m | bar | bar | mm | m | m ³ |
|  <p>en stock available on stock</p> <p>ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES</p>  <p>ARIANNA TA FUEL (cód. AT 11) p.66</p> | | A5010060011000* | 6 | 11 | 85 | 21 | 63 | 30 | 100 | 0,023 |
| | | A5010060012000 | 6 | 12 | 105 | 21 | 63 | 30 | 100 | 0,025 |
| | | A5010080013000* | 8 | 13 | 105 | 23 | 69 | 40 | 100 | 0,028 |
| | | A5010080014000 | 8 | 14 | 130 | 23 | 69 | 40 | 100 | 0,032 |
| | | A5010090015000* | 9 | 15 | 140 | 18 | 54 | 50 | 100 | 0,036 |
| | | A5010100015000* | 10 | 15 | 120 | 16 | 48 | 50 | 100 | 0,036 |
| | | A5010100016000 | 10 | 16 | 150 | 16 | 48 | 50 | 100 | 0,041 |
| | | A5010120017000* | 12 | 17 | 140 | 12 | 36 | 60 | 100 | 0,044 |
| | | A5010120018000 | 12 | 18 | 175 | 12 | 36 | 60 | 100 | 0,050 |
| | | A5010125018500* | 12,5 | 18,5 | 180 | 12 | 36 | 60 | 100 | 0,051 |
| | | A5010130019000 | 13 | 19 | 185 | 11 | 33 | 70 | 100 (JP 50/100) | 0,058 |
| | | A5010150020000* | 15 | 20 | 170 | 11 | 33 | 80 | 50 | 0,034 |
| | | A5010150021000* | 15 | 21 | 210 | 11 | 33 | 80 | 50 | 0,035 |
| | | A5010150023000* | 15 | 23 | 295 | 10 | 30 | 80 | 50 | 0,042 |
| | | A5010160021000* | 16 | 21 | 180 | 10 | 30 | 80 | 50 | 0,035 |
| | | A5010160022000 | 16 | 22 | 220 | 10 | 30 | 80 | 50 | 0,041 |
| | | A5010190025000* | 19 | 25 | 255 | 9 | 27 | 100 | 50 | 0,083 |
| | | A5010190026000 | 19 | 26 | 305 | 9 | 27 | 100 | 50 | 0,085 |
| | | A5010250032000* | 25 | 32 | 385 | 8 | 24 | 130 | 50 | 0,099 |
| | A5010250033000 | 25 | 33 | 450 | 8 | 24 | 130 | 50 | 0,102 | |
| | A5010300038000 | 30 | 38 | 525 | 6 | 18 | 150 | 50 | 0,141 | |
| | A5010320042000 | 32 | 42 | 710 | 5 | 15 | 160 | 50 | 0,168 | |
| | A5010380048000 | 38 | 48 | 825 | 4 | 12 | 190 | 50 | 0,271 | |
| | A5010400050000 | 40 | 50 | 865 | 4 | 12 | 200 | 50 | 0,303 | |
| | A5010500062000* | 50 | 62 | 1290 | 4 | 12 | 250 | 50 | 0,391 | |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES Tubo de color azul, de PVC-P idóneo al contacto con alimentos, con doble refuerzo textil en poliéster de alta tenacidad. Cubierta exterior en formulación especial antigrasa, que garantiza una mayor resistencia de la manguera durante las operaciones de limpieza y desinfección en la industria alimentaria. Superficies interna y externa completamente lisas para favorecer el paso de las sustancias y para facilitar su limpieza y desinfección antes y después del uso. Diseñado expresamente para el transporte de agua caliente, para la limpieza e higienización a alta presión y a temperaturas elevadas (50 bar a 70°C). Manejable, flexible y resistente al ozono, agentes atmosféricos, detergentes y sustancias químicas. Idóneo para el transporte de alimentos según UE 10/2011 (clases A,B, C).

• Transporte de agua caliente y soluciones de limpieza en la industria alimentaria, saneamiento de silos, cámaras frigoríficas y en todas las fases de procesamiento de alimentos que requieran un alto nivel de higiene. La manguera está disponible en varios colores bajo pedido (para más información, póngase en contacto con el departamento de ventas).

EN Light blue hose made of food grade vinyl compound and with double high tenacity polyester reinforcement. Outer cover made with a special grease-proof formulation, to make the hose more resistant during cleaning and disinfection operations in the food processing industries. Inside and outside completely smooth to enhance flow properties and allow an easy cleaning and sterilization processes. Specially conceived for the food industry, to deliver hot water and solutions for high pressure cleaning and sanitation, at temperatures up to 70°C. Cleanwash is easy to handle, flexible as well as resistant to ozone, weathering, to most detergents and chemicals. Food grade, according to EU 10/2011 (classes A, B, C). • Delivery of hot water and solutions for cleaning in food industry, sanitation of silos, refrigerating rooms and whereas a high-purity standard is requested. It is available in various colours, on request (contact our offices for more info).

CÓD. YO CH Ø mm 12



Tubo en PVC-P
PVC-P hose

Cubierta de formulación especial antigrasa
Special grease-proof cover

Doble Refuerzo textil de fibra de poliéster
Double Polyester yarn reinforcement



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO CODE | Ø INT. Ø INT. | Ø EST. Ø OUT. | PESO WEIGHT | P.T. W.P. | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOLUMEN VOLUME |
|--------------------------------|----------------|------------------|------------------|----------------|--------------|-------------------------|-------------------------|-------------------|
| | | mm | mm | g/m | bar | mm | m | m ³ |
| | YOCH0120022000 | 12 | 22 | 370 | 90 | 120 | 100 | 0,097 |

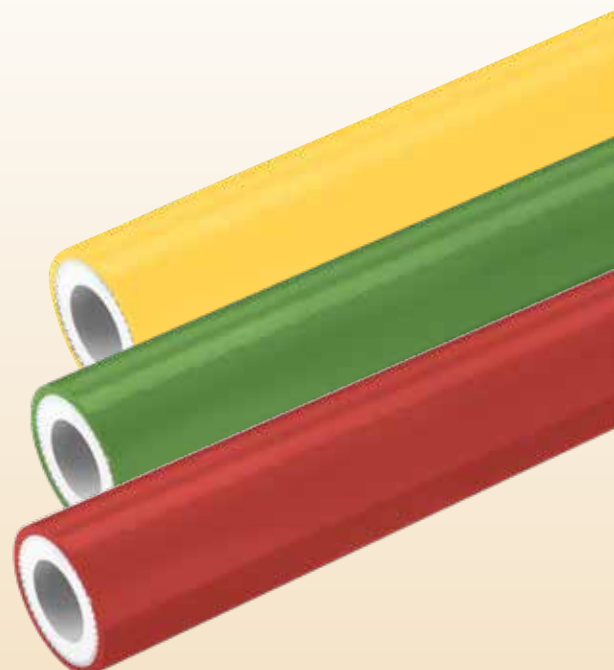


3 VERSIONES DE COLOR 3 COLOUR VERSIONS

- amarillo/ yellow CÓD. G4
- verde/ green CÓD. H1
- rojo/ red CÓD. G3

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.



ES **Tubo transparente de PVC-P monocapa**, muy ligero y flexible. Resistente a la intemperie y a la mayoría de los productos químicos. Calidad alimentaria, según UE 10/2011 (clases A, B, C).

• Solución ideal para transportar líquidos de uso alimentario, bebidas, zumos de frutas, vinagre, vino y licores con una concentración de alcohol de hasta el 20%. También se utiliza en máquinas de envasado y dosificación.

EN **Mono-layer transparent PVC-P hose**, very light and flexible. Resistant to weathering and most chemicals. Food grade, according to EU 10/2011 (classes A, B, C).

• Ideal solution for conveying food liquids, beverages, fruit juices, vinegar, wine and spirits with an alcohol content of up to 20%. Often used on filling and dosing machines.

CÓD. CR 01

Ø mm 3-25



Tubo en PVC-P
PVC-P hose



| FICHA TÉCNICA - TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|-----------------|--------|--------|--------|--------------|------------|--------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | mm | m | m³ |
| | CR010030005000* | 3 | 5 | 15 | 18 | 200 | 0,013 |
| | CR010032005600* | 3,2 | 5,6 | 20 | 19,2 | 200 | 0,015 |
| | CR010040006000* | 4 | 6 | 20 | 24 | 200 | 0,016 |
| | CR010040007000* | 4 | 7 | 30 | 24 | 200 | 0,019 |
| | CR010050008000* | 5 | 8 | 35 | 30 | 200 | 0,023 |
| | CR010060009000* | 6 | 9 | 45 | 36 | 100 | 0,018 |
| | CR010070010000* | 7 | 10 | 50 | 42 | 100 | 0,020 |
| | CR010070011000* | 7 | 11 | 70 | 42 | 100 | 0,023 |
| | CR010080011000* | 8 | 11 | 55 | 48 | 100 | 0,023 |
| | CR010080012000* | 8 | 12 | 75 | 48 | 100 | 0,025 |
| | CR010090012000* | 9 | 12 | 60 | 54 | 100 | 0,025 |
| | CR010100013000* | 10 | 13 | 65 | 60 | 100 | 0,028 |
| | CR010100014000* | 10 | 14 | 90 | 60 | 100 | 0,032 |
| | CR010100016000* | 10 | 16 | 150 | 60 | 100 | 0,041 |
| | CR010120015000* | 12 | 15 | 75 | 72 | 100 | 0,036 |
| | CR010120016000* | 12 | 16 | 105 | 72 | 100 | 0,041 |
| | CR010130017000* | 13 | 17 | 115 | 78 | 100 | 0,044 |
| | CR010130018000* | 13 | 18 | 145 | 78 | 100 | 0,050 |
| | CR010150019000* | 15 | 19 | 130 | 90 | 50 | 0,033 |
| | CR010150020000* | 15 | 20 | 165 | 90 | 50 | 0,034 |
| CR010150021000* | 15 | 21 | 205 | 90 | 50 | 0,035 | |
| CR010160020000* | 16 | 20 | 135 | 96 | 50 | 0,034 | |
| CR010160021000* | 16 | 21 | 175 | 96 | 50 | 0,035 | |
| CR010190024000* | 19 | 24 | 205 | 114 | 50 | 0,073 | |
| CR010200026000* | 20 | 26 | 260 | 120 | 50 | 0,083 | |
| CR010220030000* | 22 | 30 | 395 | 132 | 50 | 0,092 | |
| CR010250031000* | 25 | 31 | 320 | 150 | 50 | 0,100 | |
| CR010250032000* | 25 | 32 | 380 | 150 | 50 | 0,102 | |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

SATURNO YELLOW



ES Tubo de PVC-P de color amarillo transparente con espiral de refuerzo de PVC rígido antichoques de color marfil. Superficie interna completamente lisa y superficie externa semilisa. Ligero y maneable. Muy resistente al aplastamiento, a los agentes atmosféricos y a numerosas substancias químicas. Calidad alimentaria, según UE 10/2011 (clases A, B, C).

• Para riego; en agricultura, se utiliza para la aspiración y el transporte de líquidos, fertilizantes y soluciones de uso común en el sector; aspiración y transporte de líquidos alimentarios. Se utiliza en camiones cisterna y en el sector náutico como manguera de transporte de líquidos en bombas de sentina.

EN Transparent yellow PVC-P hose reinforced with an ivory anti-shock rigid PVC spiral. Inside surface smooth, light corrugation outside. Strong and flexible, resistant to crushing, weathering and to most chemicals. Suitable for suction and delivery of food liquids, according to EU 10/2011 (classes A, B, C).

• Excellent in agriculture, for irrigation and suction of liquids, fertilizers and solutions used in agriculture. It is used on tank trucks; in the marine industry, as liquid transfer hose on bilge pumps.

CÓD. SY
Ø mm 19-200

Tubo en PVC-P
PVC-P hose



Espiral de PVC rígido antichoques
Anti-shock rigid PVC spiral



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|---------|-----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | 2,2-6,5 | SY010190000000* | 19,1 | 2,2 | 2,9 | 200 | 5 | 15 | 6 | 110 | 50 | 0,046 |
| | | SY010200000000* | 20 | 2,2 | 2,9 | 210 | 5 | 15 | 6 | 110 | 50 | 0,048 |
| | | SY010220000000* | 22 | 2,3 | 3 | 240 | 5 | 15 | 6 | 130 | 50 | 0,061 |
| | | SY010250000000* | 25 | 2,3 | 3 | 270 | 5 | 15 | 6 | 140 | 50 | 0,078 |
| | | SY010255000000* | 25,5 | 2,3 | 3 | 280 | 5 | 15 | 6 | 140 | 50 | 0,079 |
| | | SY010300000000* | 30 | 2,3 | 3,1 | 330 | 5 | 15 | 6 | 170 | 50 | 0,116 |
| | | SY010320000000* | 31,8 | 2,4 | 3,2 | 360 | 5 | 15 | 6 | 180 | 50 | 0,122 |
| | | SY010325000000* | 32,5 | 2,4 | 3,2 | 370 | 5 | 15 | 6 | 180 | 50 | 0,124 |
| | | SY010350000000* | 35 | 2,5 | 3,3 | 410 | 5 | 15 | 6 | 195 | 50 | 0,133 |
| | | SY010380000000* | 38,1 | 2,6 | 3,4 | 460 | 5 | 15 | 6 | 210 | 50 | 0,172 |
| | | SY010390000000* | 39 | 2,6 | 3,4 | 470 | 5 | 15 | 6 | 215 | 50 | 0,176 |
| | | SY010400000000* | 40 | 2,6 | 3,5 | 490 | 5 | 15 | 6 | 220 | 50 | 0,180 |
| | | SY010450000000* | 45 | 2,7 | 3,6 | 570 | 5 | 15 | 6 | 250 | 50 | 0,234 |
| | | SY010500000000* | 50 | 3 | 4 | 710 | 5 | 15 | 6 | 270 | 50 | 0,251 |
| | | SY010520000000* | 50,8 | 3 | 4 | 720 | 5 | 15 | 6 | 270 | 50 | 0,254 |
| | | SY010550000000* | 55 | 3 | 4 | 780 | 5 | 15 | 6 | 310 | 50 | 0,363 |
| | | SY010570000000* | 57 | 3 | 4 | 800 | 5 | 15 | 6 | 310 | 50 | 0,374 |
| | | SY010600000000* | 60 | 3 | 4,2 | 870 | 5 | 15 | 6 | 330 | 50 | 0,394 |
| | | SY010630000000* | 63,5 | 3 | 4,2 | 920 | 5 | 15 | 6 | 350 | 50 | 0,414 |
| | | SY010650000000* | 65 | 3,1 | 4,3 | 970 | 5 | 15 | 6 | 360 | 50 | 0,636 |
| | | SY010700000000* | 70 | 3,2 | 4,5 | 1050 | 4 | 12 | 6 | 450 | 50 | 0,683 |
| | | SY010750000000* | 75 | 3,3 | 4,6 | 1160 | 4 | 12 | 6 | 500 | 50 | 0,727 |
| | | SY010760000000* | 76,2 | 3,3 | 4,6 | 1180 | 4 | 12 | 6 | 500 | 50 | 0,738 |
| | | SY010800000000* | 80 | 3,6 | 5 | 1350 | 4 | 12 | 6 | 550 | 50 | 0,778 |
| | | SY010900000000* | 90 | 4,2 | 6 | 1870 | 3 | 9 | 6 | 630 | 30 | 0,588 |
| | | SY011000000000* | 100 | 4,6 | 6,4 | 2210 | 3 | 9 | 6 | 710 | 30 | 0,866 |
| | | SY011020000000* | 102 | 4,6 | 6,4 | 2250 | 3 | 9 | 6 | 710 | 30 | 0,882 |
| | | SY011100000000* | 110 | 5 | 6,7 | 2560 | 3 | 9 | 6 | 720 | 30 | 1,264 |
| | | SY011200000000* | 120 | 5 | 6,8 | 2810 | 3 | 9 | 6 | 730 | 30 | 1,368 |
| | | SY011270000000* | 127 | 5,1 | 6,9 | 3030 | 3 | 9 | 6 | 740 | 30 | 1,442 |
| | | SY011500000000* | 151,5 | 5,9 | 7,8 | 4160 | 3 | 9 | 6 | 800 | 20 | 1,337 |
| | | SY011520000000* | 152,4 | 5,9 | 7,8 | 4180 | 3 | 9 | 6 | 800 | 20 | 1,344 |
| | | SY012000000000* | 200 | 6,5 | 10 | 6510 | 2 | 6 | 4,5 | 1000 | 10 | 1,76 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES **Tubo transparente de PVC-P con espiral de refuerzo de PVC rígido antichoque color marfil.** Superficie interna totalmente lisa, ligero y muy flexible. Resistente al agentes atmosféricos y a numerosos productos químicos. Pared y espiral para al contacto con alimentos. Versión antiestática con hilo de cobre según pedido (cód. NQ 02). Calidad alimentaria según UE 10/2011 (clases A, B, C, D1); apto para el transporte de leche y productos lácteos.

- Solución ideal para la aspiración y el transporte de alimentos en polvo, granos, alimentos liofilizados, bebidas, zumos de frutas, vinagre, vino y licores con una concentración de alcohol de hasta el 50%. En agricultura, se utiliza en camiones cisterna y vehículos de transporte y pulverización de líquidos.

EN **Transparent PVC-P hose, reinforced with an ivory anti-shock rigid PVC spiral.** Smooth inside, light and very flexible. Resistant to loads, weathering and to a wide range of chemicals. Food grade wall and rigid plastic spiral, make Nettuno a total food hose. The AS version with copper wire is available on request (Cod. NQ 02). Food grade, according to EU 10/2011 (classes A, B, C, D1) and suitable for passage of milk and dairy products.

- Ideal solution for suction and delivery of food powders flours, light grains, freeze dried foodstuffs as well as for liquid in general, beverages, juices, milk and by-products, vinegar, wines and liquours with alcohol content up to 50%. In agriculture, used on tank trucks and spraying vehicles.

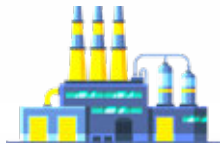
CÓD. NQ

Ø mm 13-305

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose

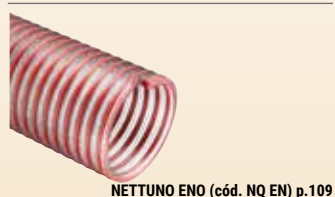


| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|--|-----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|----------------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | | NQ010130000000 | 13 | 2,4 | 2,7 | 150 | 10 | 30 | 7 | 75 | 50 | 0,033 |
| | | NQ010160000000 | 16 | 2,5 | 2,8 | 190 | 8 | 24 | 7 | 90 | 50 | 0,039 |
| | | NQ010190000000* | 19,1 | 2,6 | 2,9 | 230 | 7 | 21 | 7 | 110 | 50 | 0,054 |
| | | NQ010200000000 | 20 | 2,6 | 2,9 | 240 | 7 | 21 | 7 | 110 | 50 | 0,056 |
| | | NQ010220000000* | 22 | 2,6 | 2,9 | 260 | 7 | 20 | 7 | 110 | 50 | 0,060 |
| | | NQ010250000000 | 25 | 2,6 | 2,9 | 290 | 6 | 18 | 7 | 130 | 50 | 0,078 |
| | | NQ010300000000 | 30 | 2,7 | 3 | 360 | 5 | 15 | 7 | 150 | 50 | 0,115 |
| | | NQ010320000000 | 31,8 | 2,7 | 3 | 380 | 5 | 15 | 7 | 155 | 50 | 0,121 |
| | | NQ010350000000 | 35 | 2,7 | 3,5 | 440 | 4 | 12 | 7 | 170 | 50 | 0,134 |
| | | NQ010380000000 | 38,1 | 2,9 | 3,7 | 510 | 4 | 12 | 7 | 180 | 50 | 0,146 |
| | | NQ010390000000* | 39 | 2,9 | 3,7 | 530 | 4 | 12 | 7 | 190 | 50 | 0,178 |
| | | NQ010400000000 | 40 | 3 | 3,8 | 560 | 4 | 12 | 7 | 195 | 50 | 0,183 |
| | | NQ010450000000 | 45 | 3,2 | 4,1 | 680 | 4 | 12 | 7 | 215 | 50 | 0,238 |
| | | NQ010500000000 | 50 | 3,3 | 4,5 | 810 | 4 | 12 | 7 | 235 | 50 | 0,255 |
| | | NQ010515000000* | 51,5 | 3,3 | 4,5 | 830 | 4 | 12 | 7 | 245 | 50 | 0,261 |
| | | NQ010520000000 | 50,8 | 3,3 | 4,5 | 820 | 4 | 12 | 7 | 235 | 50 | 0,258 |
| | | NQ010550000000* | 55 | 3,4 | 4,6 | 910 | 4 | 12 | 7 | 255 | 50 | 0,370 |
| | | NQ010570000000* | 57 | 3,4 | 4,6 | 940 | 4 | 12 | 7 | 265 | 50 | 0,381 |
| | | NQ010600000000 | 60 | 3,4 | 4,6 | 990 | 4 | 12 | 7 | 275 | 50 | 0,399 |
| | | NQ010630000000 | 63,5 | 3,4 | 4,7 | 1060 | 4 | 12 | 7 | 290 | 50 | 0,420 |
| | | NQ010650000000* | 65 | 3,5 | 4,8 | 1120 | 4 | 12 | 7 | 300 | 50 | 0,430 |
| | | NQ010700000000 | 70 | 3,7 | 5 | 1220 | 3 | 9 | 7 | 320 | 50 | 0,461 |
| | | NQ010750000000 | 75 | 3,9 | 5,2 | 1380 | 3 | 9 | 7 | 340 | 50 | 0,615 |
| | | NQ010760000000 | 76,2 | 3,9 | 5,2 | 1400 | 3 | 9 | 7 | 340 | 50 | 0,624 |
| | | NQ010770000000* | 77,7 | 3,9 | 5,2 | 1420 | 3 | 9 | 7 | 350 | 50 | 0,634 |
| | | NQ010800000000 | 80 | 4,2 | 5,5 | 1550 | 3 | 9 | 7 | 365 | 50 | 0,655 |
| | | NQ010900000000 | 90 | 4,4 | 5,9 | 1860 | 3 | 9 | 7 | 420 | 30 | 0,733 |
| | | NQ011000000000 | 100 | 4,8 | 6,4 | 2240 | 3 | 9 | 7 | 470 | 30 | 0,866 |
| | | NQ011020000000 | 102 | 4,8 | 6,4 | 2280 | 3 | 9 | 7 | 470 | 30 | 0,882 |
| | | NQ011035000000* | 103,5 | 4,9 | 6,5 | 2360 | 3 | 9 | 7 | 490 | 30 | 0,895 |
| | | NQ011050000000* | 105 | 4,9 | 6,5 | 2400 | 3 | 9 | 7 | 490 | 30 | 0,906 |
| | | NQ011100000000 | 110 | 5 | 6,7 | 2560 | 3 | 9 | 6 | 520 | 30 | 0,948 |
| | | NQ011200000000 | 120 | 5,1 | 6,8 | 2840 | 3 | 9 | 6 | 650 | 30 | 1,026 |
| | | NQ011270000000 | 127 | 5,2 | 6,9 | 3060 | 3 | 9 | 5,5 | 680 | 30 | 1,126 |
| | | NQ011300000000* | 130 | 5,3 | 7,2 | 3260 | 3 | 9 | 5 | 700 | 30 | 1,155 |
| | | NQ011400000000* | 140 | 5,7 | 7,7 | 3820 | 3 | 9 | 5 | 750 | 20 | 1,243 |
| | | NQ011500000000 | 151,5 | 6,1 | 8,2 | 4390 | 3 | 9 | 5 | 780 | 20 | 1,343 |
| | | NQ011520000000* | 152,8 | 6,1 | 8,2 | 4420 | 3 | 9 | 5 | 780 | 20 | 1,354 |
| | | NQ011600000000* | 160 | 6,3 | 8,8 | 4780 | 2 | 6 | 4,5 | 850 | 20 | 1,421 |
| | | NQ012000000000* | 200 | 6,5 | 10 | 6520 | 2 | 6 | 4,5 | 1000 | 10 | 2,130 |
| | | NQ012030000000* | 203,2 | 6,5 | 10 | 6620 | 2 | 6 | 4,5 | 1000 | 10 | 2,161 |
| | | NQ012500000000* | 250 | 6,8 | 10,5 | 8600 | 1,5 | 4,5 | 4 | 1800 | tramo 10 m/ straight | 0,734 |
| | | NQ012540000000* | 254 | 6,8 | 10,5 | 8730 | 1,5 | 4,5 | 4 | 1800 | tramo 10 m/ straight | 0,756 |
| | | NQ013000000000* | 300 | 7,2 | 11,1 | 11030 | 1 | 3 | 4 | 2000 | tramo 10 m/ straight | 1,038 |
| | | NQ013050000000* | 304,8 | 7,2 | 11,1 | 11200 | 1 | 3 | 4 | 2000 | tramo 10 m/ straight | 1,069 |

JP en stock
available on stock

2,4-7,2 +60°C
-10°C

ARTÍCULOS DE LA MISMA SERIE
ITEMS IN THE SAME SERIES



*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

ARTÍCULOS JP (VERSIONE AS) / JP AS VERSION ITEMS

| | | | | | | | | | | |
|----------------|----|-----|-----|-----|---|----|---|-----|----|-------|
| NQ020500000000 | 50 | 3,3 | 4,5 | 870 | 4 | 12 | 7 | 235 | 50 | 0,255 |
|----------------|----|-----|-----|-----|---|----|---|-----|----|-------|

NETTUNO PU



ES Tubo transparente de PVC-P, capa inferior de TPU a base de éter y espiral de refuerzo de PVC rígido antichoque de color marfil. Completamente liso en el interior, ligero y muy flexible.

Resistente a las aplastamiento, a la intemperie, a muchos productos químicos, a la hidrólisis. Las paredes interiores y exteriores y la espiral son aptas para el contacto con alimentos, por lo que Nettuno es totalmente adecuados para uso alimentario. Versión antiestática con hilo de cobre disponible bajo pedido (Cód. NR 02). Apto para el transporte de alimentos según UE 10/2011 (clases A, B, C, D2).

• Solución ideal para la aspiración y transporte de alimentos en polvo como harinas, alimentos liofilizados, granos pequeños y para el paso de bebidas con una concentración de alcohol de hasta el 20%; adecuado para el paso de aceite vegetal y alimentos grasos.

EN Transparent PVC-P hose, with and ether based TPU liner, reinforced with an ivory anti-shock rigid PVC spiral. Completely smooth inside, light and very flexible. Resistant to loads, weathering and to a wide range of chemicals, as well as to Hydrolysis. Food grade hose liner, cover and rigid PVC spiral, make Nettuno PU a total food hose. The AS version with copper wire is available on request (Cod. NR 02). Food grade, according to EU 10/2011 (classes A, B, C, D2).

• Ideal solution for suction and delivery of food powders, flours, light grains, freeze dried foodstuffs. For beverages with alcohol content up to 20%. Suitable for transfer of vegetable oil and fatty foods.

CÓD. NR
Ø mm 25-110

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose

Capa inferior de TPU a base de éter
Ether-based TPU liner



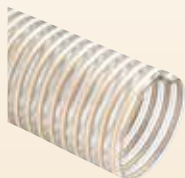
FICHA TÉCNICA · TECHNICAL DATA



ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



NETTUNO SE (cód. NX NF) p.80



NETTUNO (cód. NQ) p.107

| CÓDIGO CODE | Ø INT. Ø INT. | MIN ESP. MIN WALL TH. | MAX ESP. MAX WALL TH. | PESO WEIGHT | P.T. W.P. | PR. B.P. | VACIO VACUUM | R. CURVATURA BENDING | LG. ROLLO COIL LGTH. | VOLUME VOLUME |
|-----------------|------------------|--------------------------|--------------------------|----------------|--------------|-------------|--------------------|-------------------------|-------------------------|------------------|
| | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| NR010250000000* | 25 | 2,7 | 3,4 | 310 | 5 | 15 | 7 | 125 | 30 | 0,061 |
| NR010300000000* | 30 | 2,8 | 3,5 | 380 | 5 | 15 | 7 | 150 | 30 | 0,071 |
| NR010320000000 | 31,8 | 2,9 | 3,6 | 420 | 5 | 15 | 7 | 155 | 30 | 0,100 |
| NR010350000000* | 35 | 3 | 3,7 | 470 | 5 | 15 | 7 | 170 | 30 | 0,109 |
| NR010380000000 | 38,1 | 3,1 | 3,9 | 530 | 5 | 15 | 7 | 185 | 30 | 0,118 |
| NR010400000000 | 40 | 3,1 | 4 | 560 | 5 | 15 | 7 | 195 | 30 | 0,123 |
| NR010450000000* | 45 | 3,1 | 4,3 | 660 | 5 | 15 | 7 | 215 | 30 | 0,154 |
| NR010500000000 | 50 | 3,3 | 4,7 | 790 | 5 | 15 | 7 | 235 | 30 | 0,171 |
| NR010520000000 | 50,8 | 3,3 | 4,7 | 800 | 5 | 15 | 7 | 235 | 30 | 0,173 |
| NR010550000000* | 55 | 3,4 | 4,8 | 890 | 5 | 15 | 7 | 255 | 30 | 0,279 |
| NR010570000000* | 57 | 3,4 | 4,8 | 930 | 5 | 15 | 7 | 265 | 30 | 0,288 |
| NR010600000000 | 60 | 3,4 | 4,8 | 970 | 5 | 15 | 7 | 275 | 30 | 0,301 |
| NR010630000000 | 63,5 | 3,5 | 4,8 | 1040 | 5 | 15 | 7 | 290 | 30 | 0,316 |
| NR010650000000* | 65 | 3,5 | 4,8 | 1060 | 5 | 15 | 7 | 290 | 30 | 0,322 |
| NR010700000000* | 70 | 3,7 | 5,1 | 1180 | 5 | 15 | 7 | 320 | 30 | 0,346 |
| NR010760000000 | 76,2 | 3,9 | 5,4 | 1380 | 5 | 15 | 7 | 340 | 30 | 0,501 |
| NR010800000000* | 80 | 4,1 | 5,7 | 1510 | 4 | 12 | 7 | 365 | 30 | 0,658 |
| NR010900000000* | 90 | 4,4 | 6 | 1830 | 4 | 12 | 7 | 420 | 30 | 0,783 |
| NR011000000000* | 100 | 4,7 | 6,5 | 2170 | 4 | 12 | 7 | 470 | 30 | 0,868 |
| NR011020000000 | 102 | 4,7 | 6,5 | 2210 | 4 | 12 | 7 | 470 | 30 | 0,883 |
| NR011100000000* | 110 | 5,1 | 7 | 2590 | 4 | 12 | 6 | 520 | 30 | 1,270 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ARTÍCULOS JP (VERSIONE AS) / JP AS VERSION ITEMS

| | | | | | | | | | | |
|----------------|----|-----|-----|-----|---|----|---|-----|----|-------|
| NR020500000000 | 50 | 3,3 | 4,7 | 860 | 5 | 15 | 7 | 235 | 30 | 0,171 |
|----------------|----|-----|-----|-----|---|----|---|-----|----|-------|



ES Tubo transparente de PVC-P, con espiral de refuerzo de PVC rígido antichoque de color rojo. Superficie interna completamente lisa para favorecer el flujo de las sustancias transportadas; la más ligera y manejable de la gama diseñada para la enología. Pared y espiral para al contacto con alimentos. Muy resistente al aplastamiento, a los agentes atmosféricos y a numerosas sustancias químicas. Tubo de calidad alimentaria, según UE 10/2011 (clase A,B, C, D1).

- Solución ideal para aspiración e impulsión de vino, vinagre y licores con concentraciones alcohólicas de hasta el 50%. Transporte de líquidos alimentarios.



EN Transparent PVC-P hose, reinforced with a red anti-shock rigid PVC spiral, designed for the wine industry. Completely smooth inside to enhance the optimization of flow properties, it is the lightest and easiest to handle hose among the products conceived for the winery. Food grade wall and hard plastic spiral. Resistance to loads, weathering and to a wide range of chemicals. Food grade, according to EU 10/2011 (classes A, B, C, D1).

- Ideal solution for suction and delivery of wines, vinegar, liquors with alcohol content up to 50%; delivery of food liquids in general.

CÓD. NQ EN

Ø mm 13-305

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|-------|-----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|----------------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| 2,4-7,2 | +60°C | NQEN0130000000* | 13 | 2,4 | 2,7 | 150 | 10 | 30 | 7 | 75 | 50 | 0,033 |
| | | NQEN0160000000* | 16 | 2,5 | 2,8 | 190 | 8 | 24 | 7 | 90 | 50 | 0,039 |
| | -10°C | NQEN0190000000* | 19,1 | 2,6 | 2,9 | 230 | 7 | 21 | 7 | 110 | 50 | 0,054 |
| | | NQEN0200000000 | 20 | 2,6 | 2,9 | 240 | 7 | 21 | 7 | 110 | 50 | 0,056 |
| | | NQEN0250000000 | 25 | 2,6 | 2,9 | 290 | 6 | 18 | 7 | 130 | 50 | 0,078 |
| | | NQEN0300000000 | 30 | 2,7 | 3 | 360 | 5 | 15 | 7 | 150 | 50 | 0,115 |
| | | NQEN0320000000 | 31,8 | 2,7 | 3 | 380 | 5 | 15 | 7 | 155 | 50 | 0,121 |
| | | NQEN0350000000 | 35 | 2,7 | 3,5 | 440 | 4 | 12 | 7 | 170 | 50 | 0,134 |
| | | NQEN0380000000 | 38,1 | 2,9 | 3,7 | 510 | 4 | 12 | 7 | 180 | 50 | 0,146 |
| | | NQEN0390000000* | 39 | 2,9 | 3,7 | 530 | 4 | 12 | 7 | 190 | 50 | 0,178 |
| | | NQEN0400000000 | 40 | 3 | 3,8 | 560 | 4 | 12 | 7 | 195 | 50 | 0,183 |
| | | NQEN0450000000* | 45 | 3,2 | 4,1 | 680 | 4 | 12 | 7 | 215 | 50 | 0,238 |
| | | NQEN0500000000 | 50 | 3,3 | 4,5 | 810 | 4 | 12 | 7 | 235 | 50 | 0,255 |
| | | NQEN0515000000* | 51,5 | 3,3 | 4,5 | 830 | 4 | 12 | 7 | 245 | 50 | 0,261 |
| | | NQEN0520000000 | 50,8 | 3,3 | 4,5 | 820 | 4 | 12 | 7 | 235 | 50 | 0,258 |
| | | NQEN0550000000* | 55 | 3,4 | 4,6 | 910 | 4 | 12 | 7 | 255 | 50 | 0,370 |
| | | NQEN0570000000* | 57 | 3,4 | 4,6 | 940 | 4 | 12 | 7 | 265 | 50 | 0,381 |
| | | NQEN0600000000 | 60 | 3,4 | 4,6 | 990 | 4 | 12 | 7 | 275 | 50 | 0,399 |
| | | NQEN0630000000* | 63,5 | 3,4 | 4,7 | 1060 | 4 | 12 | 7 | 290 | 50 | 0,420 |
| | | NQEN0650000000* | 65 | 3,5 | 4,8 | 1120 | 4 | 12 | 7 | 300 | 50 | 0,430 |
| | | NQEN0700000000* | 70 | 3,7 | 5 | 1220 | 3 | 9 | 7 | 320 | 50 | 0,461 |
| | | NQEN0760000000 | 76,2 | 3,9 | 5,2 | 1400 | 3 | 9 | 7 | 340 | 50 | 0,624 |
| | | NQEN0770000000* | 77,7 | 3,9 | 5,2 | 1420 | 3 | 9 | 7 | 350 | 50 | 0,634 |
| | | NQEN0800000000 | 80 | 4,2 | 5,5 | 1550 | 3 | 9 | 7 | 365 | 50 | 0,786 |
| | | NQEN0900000000* | 90 | 4,4 | 5,9 | 1860 | 3 | 9 | 7 | 420 | 30 | 0,733 |
| | | NQEN1000000000 | 100 | 4,8 | 6,4 | 2240 | 3 | 9 | 7 | 470 | 30 | 0,866 |
| | | NQEN1020000000 | 102 | 4,8 | 6,4 | 2280 | 3 | 9 | 7 | 470 | 30 | 0,882 |
| | | NQEN1035000000* | 103,5 | 4,9 | 6,5 | 2360 | 3 | 9 | 7 | 490 | 30 | 0,895 |
| | | NQEN1050000000* | 105 | 4,9 | 6,5 | 2400 | 3 | 9 | 7 | 490 | 30 | 0,906 |
| | | NQEN1100000000* | 110 | 5 | 6,7 | 2560 | 3 | 9 | 6 | 520 | 30 | 0,948 |
| | | NQEN1200000000 | 120 | 5,1 | 6,8 | 2840 | 3 | 9 | 6 | 650 | 30 | 1,368 |
| | | NQEN1270000000* | 127 | 5,2 | 6,9 | 3060 | 3 | 9 | 5,5 | 680 | 30 | 1,126 |
| | | NQEN1300000000* | 130 | 5,3 | 7,2 | 3260 | 3 | 9 | 5 | 700 | 30 | 1,155 |
| | | NQEN1500000000* | 151,5 | 6,1 | 8,2 | 4390 | 3 | 9 | 5 | 780 | 20 | 1,343 |
| | | NQEN1520000000* | 152,8 | 6,1 | 8,2 | 4420 | 3 | 9 | 5 | 780 | 20 | 1,354 |
| | | NQEN2000000000* | 200 | 6,5 | 10 | 6520 | 2 | 6 | 4,5 | 1000 | 10 | 2,130 |
| | | NQEN2030000000* | 203,2 | 6,5 | 10 | 6620 | 2 | 6 | 4,5 | 1000 | 10 | 2,161 |
| | | NQEN2500000000* | 250 | 6,8 | 10,5 | 8600 | 1,5 | 4,5 | 4 | 1800 | tramo 10 m/ straight | 0,734 |
| | | NQEN2540000000* | 254 | 6,8 | 10,5 | 8730 | 1,5 | 4,5 | 4 | 1800 | tramo 10 m/ straight | 0,756 |
| | | NQEN3000000000* | 300 | 7,2 | 11,1 | 11030 | 1 | 3 | 4 | 2000 | tramo 10 m/ straight | 1,038 |
| | | NQEN3050000000* | 304,8 | 7,2 | 11,1 | 11200 | 1 | 3 | 4 | 2000 | tramo 10 m/ straight | 1,069 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

ES Tubo transparente de PVC-P, con espiral de refuerzo de PVC rígido antichoque de color rojo. Superficie interna completamente lisa para favorecer el flujo de las sustancias transportadas. Muy resistente al aplastamiento, a los agentes atmosféricos y a numerosas sustancias químicas. Las paredes interiores y exteriores y la espiral son aptas para el contacto con alimentos, por lo que BACCO es totalmente adecuados para uso alimentario. Versión antiestática con hilo de cobre disponible bajo pedido (Cód. BF 02). Tubo de calidad alimentaria, según UE 10/2011 (clase A,B, C, D1).

- Solución ideal para aspiración y impulsión de vino, vinagre y licores con concentraciones alcohólicas de hasta el 50%. Transporte de líquidos alimentarios.

EN Transparent PVC-P hose, reinforced with a red anti-shock rigid PVC spiral. Completely smooth inside, robust but flexible. Resistance to loads, weathering and to a wide range of chemicals. Food grade wall and hard plastic spiral make Bacco a total food hose. The AS version with copper wire is available on request (Cod. BF 02). Food grade, according to EU 10/2011 (classes A, B, C, D1).

- Ideal solution for suction and delivery of beverages with alcohol content up to 50%. Suggested for wines, marcs, liquors, juices, vinegar, other beverages and food liquids.

CÓD. BF
Ø mm 19-203

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral



Tubo en PVC-P
PVC-P hose



| FICHA TÉCNICA · TECHNICAL DATA | | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|--------------------------------|--------------------------------|-----------------|--------|--------------|--------------|--------|------|------|--------------------|--------------|---------------|----------------|
| | | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | | mm | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| | en stock available on stock | BF010190000000* | 19,1 | 3,2 | 3,5 | 290 | 9 | 27 | 10 | 110 | 50 | 0,084 |
| | | BF010200000000 | 20 | 3,2 | 3,5 | 300 | 9 | 27 | 10 | 110 | 50 | 0,104 |
| | | BF010250000000 | 25 | 3,3 | 3,7 | 390 | 8 | 24 | 10 | 170 | 50 | 0,083 |
| | | BF010300000000 | 30 | 3,5 | 3,9 | 490 | 8 | 24 | 10 | 190 | 50 | 0,121 |
| | | BF010320000000 | 31,8 | 3,5 | 3,9 | 510 | 7 | 21 | 10 | 230 | 50 | 0,127 |
| | | BF010350000000 | 35 | 3,7 | 4,2 | 590 | 7 | 21 | 10 | 230 | 50 | 0,167 |
| | | BF010380000000 | 38,1 | 4,1 | 4,5 | 710 | 7 | 21 | 10 | 260 | 50 | 0,211 |
| | | BF010390000000* | 39 | 4,1 | 4,6 | 740 | 7 | 21 | 10 | 265 | 50 | 0,216 |
| | | BF010400000000 | 40 | 4,1 | 4,6 | 750 | 7 | 21 | 10 | 270 | 50 | 0,220 |
| | | BF010450000000* | 45 | 4,4 | 4,9 | 910 | 7 | 21 | 10 | 310 | 50 | 0,237 |
| | | BF010500000000 | 50 | 4,7 | 5,3 | 1090 | 6 | 18 | 10 | 350 | 50 | 0,349 |
| | | BF010515000000* | 51,5 | 4,8 | 5,3 | 1130 | 6 | 18 | 10 | 360 | 50 | 0,358 |
| | | BF010520000000 | 50,8 | 4,7 | 5,3 | 1100 | 6 | 18 | 10 | 350 | 50 | 0,354 |
| | | BF010550000000* | 55 | 5 | 5,5 | 1260 | 6 | 18 | 10 | 370 | 50 | 0,570 |
| | | BF010600000000 | 60 | 5,2 | 5,8 | 1440 | 6 | 18 | 10 | 415 | 50 | 0,619 |
| | | BF010630000000* | 63,5 | 5,5 | 6,1 | 1620 | 6 | 18 | 10 | 440 | 50 | 0,654 |
| | | BF010650000000* | 65 | 5,5 | 6,1 | 1660 | 6 | 18 | 10 | 450 | 50 | 0,667 |
| | | BF010700000000* | 70 | 5,6 | 6,3 | 1780 | 5 | 15 | 10 | 480 | 50 | 0,714 |
| | | BF010760000000 | 76,2 | 5,7 | 6,3 | 1950 | 5 | 15 | 10 | 525 | 50 | 0,767 |
| | | BF010800000000 | 80 | 6,1 | 6,8 | 2180 | 5 | 15 | 10 | 555 | 30 (JP 30/50) | 0,674 |
| | | BF010900000000* | 90 | 6,4 | 7,1 | 2570 | 5 | 15 | 10 | 630 | 30 | 0,750 |
| | | BF011000000000 | 100 | 7,3 | 8,1 | 3270 | 5 | 15 | 9 | 695 | 30 | 0,892 |
| | | BF011020000000 | 102 | 7,3 | 8,1 | 3330 | 5 | 15 | 9 | 695 | 30 | 0,908 |
| | | BF011100000000* | 110 | 7,4 | 8,2 | 3610 | 4 | 12 | 9 | 780 | 30 | 1,294 |
| | | BF011200000000 | 120 | 7,8 | 8,6 | 4160 | 4 | 12 | 9 | 900 | 30 | 1,405 |
| | | BF011270000000* | 127 | 7,7 | 8,6 | 4350 | 4 | 12 | 9 | 1000 | 30 | 1,730 |
| | | BF011500000000* | 151,5 | 9,3 | 10,3 | 6340 | 4 | 12 | 8,5 | 1300 | 20 | 1,666 |
| | | BF011520000000* | 152,8 | 9,3 | 10,3 | 6390 | 4 | 12 | 8,5 | 1300 | 20 | 1,679 |
| | | BF012000000000* | 200 | 11,2 | 13,2 | 10350 | 4 | 12 | 8 | 2100 | 10 | 2,192 |
| | | BF012030000000* | 203,2 | 11,2 | 13,2 | 10510 | 4 | 12 | 8 | 2100 | 10 | 2,223 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

SPIRALPRESS ENO



(ES) Tubo transparente de PVC-P estudiado para el sector del vino, con espiral de PVC rígido de color rojo y refuerzo textil. La pared y la espiral son de grado alimentario. Este tubo es idóneo para aplicaciones que requieran una buena resistencia a altas presiones. La estructura con espiral a vista consiente la reducción de la fricción durante su desplazamiento. La pared y la espiral son de grado alimentario. Idóneo al contacto con alimentos según UE 10/2011 (clases A, B, C, D1). Espiral disponible para facilitar el racorado con abrazaderas (Cód. SC EN).

- Transporte y aspiración de bebidas y vino con concentraciones alcohólicas de hasta el 50%.

(EN) Transparent PVC-P hose, reinforced with a red anti-shock rigid PVC spiral and polyester yarn. Food grade wall and hard plastic spiral. Specially conceived for the wine industry and where a good resistance at high pressures is required, thanks to the textile reinforcement. The exposed PVC corrugated helix allows less resistance to dragging. Food grade hose wall and spiral. Food grade, according to EU 10/2011 (classes A, B, C, D1). Banding coil available on request, throughout the diameter range (Code SC EN).

- Suction and delivery of beverages and wines with alcohol content up to 50%.

CÓD. BS EN Ø mm 38-203

Espiral de PVC rígido antichoque
Anti-shock rigid PVC spiral

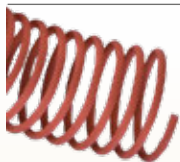


Tubo en PVC-P
PVC-P hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | MIN ESP. | MAX ESP. | PESO | P.T. | VACIO | R. CURVATURA | LG. ROLLO | VOLUMEN | LG. ESPIRAL |
|--------------------------------|----------------|-------------|--------------|--------------|--------|------|--------------------|--------------|------------|----------------|--------------------|
| | CODE | Ø INT. | MIN WALL TH. | MAX WALL TH. | WEIGHT | W.P. | VACUUM | BENDING | COIL LGTH. | VOLUME | BANDING COIL LGTH. |
| | | mm | mm | mm | g/m | bar | m H ₂ O | mm | m | m ³ | mm |
| | BSEN0380000000 | 38,1/1 1/2" | 3 | 7,1 | 790 | 8 | 9,5 | 90 | 30 | 0,134 | 153 |
| | BSEN0400000000 | 40 | 3 | 7,1 | 805 | 8 | 9,5 | 100 | 30 | 0,139 | 152 |
| | BSEN0500000000 | 50 | 3 | 7,7 | 1085 | 7 | 9,5 | 160 | 30 | 0,251 | 180 |
| | BSEN0508000000 | 50,8/ 2" | 3 | 7,7 | 1100 | 7 | 9,5 | 160 | 30 | 0,254 | 180 |
| | BSEN0600000000 | 60 | 3 | 8,4 | 1230 | 7 | 9,5 | 180 | 30 | 0,332 | 203 |
| | BSEN0760000000 | 76,2/ 3" | 3,5 | 9,8 | 1900 | 6 | 9 | 200 | 30 | 0,414 | 225 |
| | BSEN0800000000 | 80 | 3,5 | 10,4 | 2180 | 6 | 9 | 210 | 30 | 0,581 | 225 |
| | BSEN1000000000 | 100 | 3,5 | 10,4 | 2580 | 6 | 9 | 300 | 30 | 0,928 | 240 |
| | BSEN1020000000 | 101,6 | 3,5 | 10,5 | 2655 | 6 | 9 | 300 | 30 | 0,942 | 240 |
| | BSEN1270000000 | 127/ 5" | 5 | 12,5 | 3965 | 5 | 9 | 380 | 30 | 1,556 | 292,5 |
| | BSEN1520000000 | 152,4/ 6" | 5 | 13,8 | 5225 | 5 | 8 | 450 | 20 | 1,440 | 322,5 |
| | BSEN2030000000 | 203,2/ 8" | 6 | 16,4 | 8245 | 4 | 8 | 600 | 10 | 1,888 | 375 |



SC WT p.125
Espiral roja/ Red banding coil

ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES



SPIRALPRESS WT (cód. WT) p.72



SPIRALPRESS OIL (cód. SQ) p.65

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

SPIRALPRESS ENO

Especialmente diseñado para la industria vinícola
Specifically designed for wine industry



Cod. BS EN

i pag. 111

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PLUTONE PU PRESS
PHARMAPRESS
PHARMASTEEL
PHARMASTEEL PRESS
SIL LIFE W
IPL CRYSTAL CLEAR-55

FARMACÉUTICO PHARMA

PLUTONE PU PRESS



ES Tubo transparente de TPU a base de éter, con espiral de refuerzo de acero inox AISI 302 y refuerzo textil de fibra de poliéster.

Superficie interna y externa completamente lisas para favorecer el paso de las sustancias y para facilitar la limpieza y la desinfección antes y después del uso. Transparente para facilitar el control de los materiales transportados. Altamente neutral a olores y sabores, preservando las propiedades organolépticas de las sustancias transportadas. Óptima resistencia a la hidrólisis y a los posibles ataques de microbios. Buena resistencia química a los ácidos y soluciones alcalinas; material versátil resistente a los aceites y grasas en condiciones de uso común. Conductivo ($R < 10^2$ Ohm/m) conectando la espiral a tierra. Alimentario según UE 10/2011 (clases A, B, C, D2) y FDA CFR-21- 177.2600. Idóneo para la industria farmacéutica según la normativa internacional USP CLASS VI.

- Industria alimentaria y farmacéutica: aspiración y transporte de polvos altamente abrasivos. Solución ideal para el transporte de polvos cosméticos y farmacéuticos, píldoras, comprimidos medicinales, harinas y gránulos alimentarios, azúcar, sal, frutos secos. Idóneo para el transporte de líquidos alimentarios, farmacéuticos y cosméticos con concentraciones alcohólicas de hasta el 20%.

EN Transparent ether-based TPU hose, with AISI 302 stainless steel spiral and polyester textile reinforcement.

Inside and outside completely smooth to enhance flow properties and allow easy cleaning and sterilization processes. Transparent for an easy detection of the media. It can be conductive ($R < 10^2$ Ohm/m) by grounding the spiral. Highly neutral in taste and odor, it preserves the organoleptic properties of the medium. Excellent resistance to microbes and Hydrolysis as well as to chemicals, acids and alkaline solutions. Resistant also to oils and fats under common use conditions. Food grade, according to EU 10/2011 (classes A, B, C, D2, E) and FDA CFR-21- 177.2600. Compliant with the pharmaceutical standard USP CLASS VI. Suction and delivery of powders and highly abrasive granules.

- Ideal solution to transfer pharmaceutical and cosmetic powders, pills, tablets of medicines; for food flours and grains, sugar, salt, dry fruit. Suitable also for food, pharmaceutical and cosmetic liquids with alcohol content up to 20%.

CÓD. PN

Ø mm 13-51

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



TPU a base de éter
Ether-based TPU

Espiral de acero inox
Stainless steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUMEN |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| <p>+90°C picos peaks +125°C</p> <p>-40°C</p> <p>CLAMP BS 4825 p.123</p> <p>ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES</p> <p>PLUTONE PU (cód. PQ) p.98</p> | PN010130023500* | 13 | 23,5 | 365 | 19 | 57 | 10 | 65 | 60 | 0,050 |
| | PN010200032000* | 20 | 32 | 585 | 17 | 51 | 10 | 100 | 60 | 0,127 |
| | PN010250037500 | 25 | 37,5 | 755 | 12 | 36 | 10 | 125 | 60 | 0,159 |
| | PN010320044000* | 32 | 44 | 880 | 11 | 33 | 9 | 160 | 60 | 0,218 |
| | PN010380051000 | 38 | 51 | 1110 | 10 | 30 | 9 | 190 | 30 | 0,202 |
| | PN010500065000 | 51 | 65 | 1710 | 8 | 24 | 8 | 255 | 30 | 0,291 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

(ES) Tubo translucido de goma TPE-S higiénica, con refuerzo textil de poliéster de alta tenacidad. Superficies interna y externa completamente lisas para favorecer el paso de sustancias y para facilitar la limpieza y la desinfección antes y después del uso. Altamente neutral a olores y a sabores, preservando las propiedades organolépticas de las sustancias transportadas. Material curing free: pharmapress no requiere ningún proceso de vulcanización, con lo que se evita el riesgo de extracción de residuos de vulcanización en el producto final y que permite reducir el consumo de energía y las emisiones de CO₂. Excelente resistencia al ozono, al envejecimiento y a la intemperie, a la hidrólisis y a los microbios; material versátil resistente a los aceites y grasas en condiciones de uso común. Marcado incorporado en la pared para asegurar la trazabilidad permanente incluso después de un uso repetido. Calidad alimentaria según UE 10/2011 (clases A, B, C, D1, D2) y FDA CFR-21- 177.2600. Idóneo para el sector farmacéutico según la normativa internacional USP CLASS VI.

- Industria alimentaria y farmacéutica: paso de productos cosméticos, alimentos y sustancias farmacéuticas, a temperaturas de hasta +100° C. Para el transporte de leche y derivados, vinos, zumos de fruta, licores con concentraciones alcohólicas de hasta el 96%, cremas, jabones, aromas y pigmentos. También resistente a los productos que contienen aceites y grasas vegetales.

(EN) Translucent hose made from TPE-S hygienic rubber, reinforced with high tenacity polyester yarn. Inside and outside completely smooth to enhance flow properties and allow easy cleaning and sterilization processes. Highly neutral in taste and odor, it preserves the organoleptic properties of the medium. Curing-free material: Pharmapress does not need any vulcanization process, therefore it prevents the risk of leaching of curing agent residues into the end product (peroxide or platinum volatile rests) and allows to save energy sources and limit CO₂ emissions. Good chemical resistance to acids and alkaline solutions. Excellent resistance to Hydrolysis and proliferation of bacteria. Versatile rubber resistant also to oils and fats under common use conditions, as well as to ozone, ageing and weathering. Marking embedded in the wall to ensure permanent traceability even after repeated use. Food grade, according to EU 10/2011 (classes A, B, C, D1, D2) and FDA CFR-21- 177.2600. Compliant with the pharmaceutical standard USP CLASS VI.

- Delivery hose designed to transfer food, cosmetic, health care and pharmaceutical products. Suitable for a manifold range of media such as wines, fruit juices, vinegar, spirits with alcohol content up to 96%, creams, soaps, milk and by-products; also resistant to products containing oils and fats.

CÓD. HA
Ø mm 6,4-25,4



Tubo en TPE-S higiénica
TPE-S hygienic rubber hose

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | R. CURVATURA | LG. ROLLO | VOLUMEN |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------|--------|------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | mm | m | m ³ |
| <p>ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES</p> <p>PHARMASTEEL (cod. HS) p.116</p> <p>PHARMASTEEL PRESS (cod. HK) p.117</p> | HA010064012600* | 6,4 | 12,6 | 85 | 20 | 40 | 100 | 0,028 |
| | HA010079014600* | 7,9 | 14,6 | 110 | 22 | 60 | 100 | 0,036 |
| | HA010095016300* | 9,5 | 16,3 | 125 | 17 | 70 | 100 | 0,042 |
| | HA010110016000* | 11 | 16,3 | 105 | 17 | 80 | 100 | 0,042 |
| | HA010110018000* | 11 | 18 | 145 | 14 | 80 | 100 | 0,050 |
| | HA010127020100 | 12,7 | 20,1 | 175 | 11 | 90 | 100 | 0,061 |
| | HA010159024400* | 15,9 | 24,4 | 245 | 10 | 110 | 50 | 0,051 |
| | HA010190027900 | 19 | 27,9 | 300 | 11 | 130 | 50 | 0,087 |
| | HA010254034500 | 25,4 | 34,5 | 390 | 7 | 180 | 50 | 0,110 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% humidity.

ES **Tubo translucido de goma TPE-S higiénica, con espiral de refuerzo de acero inox AISI 302.** Superficies interna y externa completamente lisas para favorecer el paso de sustancias y para facilitar la limpieza y la desinfección antes y después del uso. Altamente neutral a olores y a sabores, preservando las propiedades organolépticas de las sustancias transportadas. Resistente a la hidrólisis y a los ataques microbianos. Material curing free: Pharmasteel no requiere ningún proceso de vulcanización, con lo que se evita el riesgo de extracción de residuos de vulcanización en el producto final y que permite reducir el consumo de energía y las emisiones de CO₂. Excelente resistencia al ozono, al envejecimiento y a la intemperie, a la hidrólisis y a los microbios. Material versátil resistente a los aceites y grasas en condiciones de uso común. Marcado incorporado en la pared para asegurar la trazabilidad permanente incluso después de un uso repetido. Calidad alimentaria según UE 10/2011 (clases A, B, C, D1, D2) y FDA CFR-21- 177.2600. Idóneo para el sector farmacéutico según la normativa internacional USP CLASS VI.

• Industria alimentaria y farmacéutica: paso de productos cosméticos, alimentos y sustancias farmacéuticas, a temperaturas de hasta +100° C. Para el transporte de leche y derivados, vinos, zumos de fruta, licores con concentraciones alcohólicas de hasta el 96%, cremas, jabones, aromas y pigmentos. También resistente a los productos que contienen aceites y grasas vegetales.

EN **Translucent hose made from TPE-S hygienic rubber reinforced with an AISI 302 stainless steel spiral.** Inside and outside completely smooth to enhance flow properties and allow easy cleaning and sterilization processes. Highly neutral in taste and odor, it preserves the organoleptic properties of the medium. Curing-free material: Pharmasteel does not need any vulcanization process, therefore it prevents the risk of leaching of curing agent residues into the end product (peroxide or platinum volatile rests). It allows to save energy sources and limit CO₂ emissions. Good chemical resistance to acids and alkaline solutions and good impermeability. Versatile rubber resistant also to oils and fats under common use conditions, as well as to ozone, ageing, weathering, as well as to hydrolysis and proliferation of bacteria. Food grade, according to EU 10/2011 (classes A, B, C, D1, D2) and FDA CFR 21-177.2600. Compliant with the pharmaceutical standards USP CLASS VI. Resistant to hydrolysis and proliferation of bacteria.

• Versatile suction and delivery hose designed to transfer food, cosmetic, health care and pharmaceutical products. Suitable for a manifold range of media such as wines, fruit juices, vinegar, spirits with alcohol content up to 96%, creams, soaps, milk and by-products; also resistant to products containing oils and fats.

CÓD. HS
Ø mm 10-51



Tubo en TPE-S higiénica
TPE-S hygienic rubber hose

Espiral de acero inox
Stainless steel spiral



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|---------------------------------------------------------------------------------------|-----------------|--------|--------|--------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | m H ₂ O | mm | m | m ³ |
| ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES | HS010100016000* | 10 | 16 | 140 | 1,5 | 8,5 | 50 | 60 | 0,028 |
| | HS010130019000 | 13 | 19 | 170 | 1,5 | 8,5 | 60 | 60 | 0,038 |
| | HS010160022400* | 16 | 22,4 | 215 | 1,3 | 8,5 | 70 | 60 | 0,048 |
| | HS010190026000 | 19 | 26 | 270 | 1,3 | 8,5 | 90 | 60 | 0,075 |
| | HS010250033000 | 25 | 33 | 405 | 1 | 8,5 | 110 | 60 | 0,127 |
| | HS010300038000* | 30 | 38 | 475 | 1 | 8,5 | 140 | 60 | 0,146 |
| | HS010320040400* | 32 | 40,4 | 525 | 1 | 8,5 | 140 | 60 | 0,155 |
| | HS010350043400* | 35 | 43,4 | 560 | 1 | 8,5 | 160 | 60 | 0,167 |
| | HS010380047000 | 38 | 47 | 640 | 1 | 8,5 | 170 | 30 | 0,120 |
| | HS010510061000 | 51 | 61 | 1045 | 1 | 8 | 230 | 30 | 0,264 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% umidity.

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PHARMASTEEL PRESS



ES Tubo translucido de goma TPE-S higiénica, con espiral de acero inox AISI 302 y refuerzo textil de poliéster de alta tenacidad.

Superficies interna y externa completamente lisas para favorecer el paso de sustancias y para facilitar la limpieza y la desinfección antes y después del uso. Altamente neutral a olores y a sabores, preservando las propiedades organolépticas de las sustancias transportadas. Resistente a la hidrólisis y a los ataques microbianos. Material curing free: Pharmasteel Press no requiere ningún proceso de vulcanización, con lo que se evita el riesgo de extracción de residuos de vulcanización en el producto final y que permite reducir el consumo de energía y las emisiones de CO₂. Excelente resistencia al ozono, al envejecimiento y a la intemperie, a la hidrólisis y a los microbios. Material versátil resistente a los aceites y grasas en condiciones de uso común. Marcado incorporado en la pared para asegurar la trazabilidad permanente incluso después de un uso repetido. Calidad alimentaria según UE 10/2011 (clases A, B, C, D1, D2) y FDA CFR-21- 177.2600. Idóneo para el sector farmacéutico según la normativa internacional USP CLASS VI.

- Industria alimentaria y farmacéutica: paso de productos cosméticos, alimentos y sustancias farmacéuticas, a temperaturas de hasta +100° C. Para el transporte de leche y derivados, vinos, zumos de fruta, licores con concentraciones alcohólicas de hasta el 96%, cremas, jabones, aromas y pigmentos. También resistente a los productos que contienen aceites y grasas vegetales.

EN Translucent hose made from TPE-S hygienic rubber, reinforced with AISI 302 stainless steel spiral and high tenacity polyester plies.

Inside and outside completely smooth to enhance flow properties and allow easy cleaning and sterilization processes. Highly neutral in taste and odor, it preserves the organoleptic properties of the medium. Excellent resistance to ozone, ageing and weathering. Resistant to hydrolysis and proliferation of bacteria. Curing-free material: Pharmasteel Press does not need any vulcanization process, therefore it prevents the risk of leaching of residues into the end product (peroxide or platinum volatile rests) and allows to save energy sources and limit CO₂ emissions. Good chemical resistance to acids and alkaline solutions and impermeability. Food grade, according to EU 10/2011 (classes A, B, C, D1, D2) and to FDA CFR-21- 177.2600. Compliant with the pharmaceutical standards USP CLASS VI.

- Ideal solution for suction and delivery of cosmetic, health care, food and pharmaceutical products. For transfer of wines, milk and by-products, fruit juices, vinegar, spirits with up to 96% alcohol content, creams, soaps, aromas, pigments. Resistant to products containing oils and fats.

CÓD. HK

Ø mm 13-102



Tubo en TPE-S higiénica
TPE-S hygienic rubber hose

Espirale de acero inox
Stainless steel spiral

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA - TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| CLAMP BS 4825 p.123 ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES PHARMAPRESS (cod. HA) p.115 PHARMASTEEL (cod. HS) p.116 | HK010130023500* | 13 | 23,5 | 310 | 17 | 51 | 10 | 65 | 60 | 0,050 |
| | HK010200032000 | 20 | 32 | 495 | 13 | 39 | 10 | 100 | 60 | 0,123 |
| | HK010250037500 | 25 | 37,5 | 640 | 12 | 36 | 10 | 125 | 60 | 0,159 |
| | HK010320044000* | 32 | 44 | 750 | 11 | 33 | 9 | 160 | 60 | 0,218 |
| | HK010380051000 | 38 | 51 | 945 | 10 | 30 | 9 | 190 | 30 | 0,202 |
| | HK010505065000* | 51 | 65 | 1510 | 10 | 30 | 8 | 255 | 30 | 0,291 |
| | HK010630079000* | 63 | 79 | 2035 | 10 | 30 | 8 | 315 | 30 | 0,385 |
| | HK010760091000* | 76 | 91 | 2235 | 9 | 27 | 7 | 380 | 30 | 0,604 |
| | HK011020118000* | 102 | 118 | 3030 | 7 | 21 | 7 | 510 | 20 | 0,801 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas. *Available on request, contact our sales office for more info and quantities. Los datos técnicos indicados se midieron a 23°C y 50% de humedad. The technical data here reported have been measured at 23°C with 50% humidity.

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ES **Tubo blanco transparente de silicona tratado con platino con refuerzo textil y espiral de acero inox AISI 316L.** Completamente liso internamente y externamente, el tubo reduce el riesgo de desarrollo de bacterias y de penetración de posibles residuos, neutral a olores y sabores, preservando las propiedades organolépticas de las sustancias transportadas. El tubo es sometido a un proceso de post-curing que lo preserva de la extracción de partículas volátiles contaminantes y asegura un nivel de higiene altísimo. Características del tubo: la cubierta inerte ofrece una excelente resistencia al ozono, al envejecimiento y a la intemperie. Marcado con tinta de grado alimentario. Para el transporte de sustancias farmacéuticas según las normativas americanas Pharmacopoeia, USP CLASS VI y Pharmacopoeia Europea 3.1.9.; no citotóxico según la ISO 10993; para el transporte de alimentos según FDA CFR-21-177.2600, la BFR alemana y según EU 10/2011 (clases A, B, C, D1). Pruebas realizadas: pruebas de migración en simulador ácido y simulador alcohólico al 20% y 50%.

• Transporte y aspiración de productos críticos en el sector farmacéutico, cosmético, biotecnológico y alimentario. No idóneo para implantes en el cuerpo humano. A temperaturas constantes por encima de los +100° C la prestación en presión decrece cada 10° C. **Para más información contacte con las oficinas IPL.

EN **White transparent platinum-cured silicone hose with a versatile and robust design, reinforced with polyester plies and stainless steel AISI 316L spiral.** Engineered to offer high pressure and vacuum capability. Tube features: the ultra-smooth extruded tube made of high purity silicone compound reduces the risk of bacteria buildup and permeation of residues and make Si-Life W the ideal solution for hygienic contact with the medium while being transferred. The internal surface does not impart odor or taste and preserves the organoleptic properties of the product. Cover features: the inert cover withstands atmospheric attack, ozone, temperature variations, chemical substances. The hose undergoes certified post-curing treatment which guarantees no release of volatile polluting particles and safeguards the hygiene of the processing environment. Glossy finish with ink marking meeting food regulations. Compliant with American Pharmacopoeia USP CLASS VI and European Pharmacopoeia 3.1.9.; non-cytotoxic according to ISO 10993; for food delivery, it meets FDA, German BFR, as well as the EU 10/2011 (classes A, B, C, D1). Executed Tests Migration tests in acid, alcohol 20% and alcohol 50% simulants.

• Ideal for critical product transfer in the pharmaceutical, cosmetic, biotech and food industry where high purity, resilience and good flexibility are demanded. Not for implantation. **In case of constant temperature exceeding +100C°, the pressure resistance decreases by 1% every additional 1°C. For support consult IPL.

CÓD. WK
Ø mm 12,7-102



Tubo de silicona tratado con platino
Platinum-cured silicone hose

Espiral de acero inox
Stainless steel spiral

Refuerzo textil de fibra de poliéster
Polyester yarn reinforcement



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | PESO | P.T. | P.R. | VACIO | R. CURVATURA | LG. ROLLO | VOLUME |
|---------------------------------|-----------------|--------------|--------|--------|------|------|--------------------|--------------|------------|----------------|
| | CODE | Ø INT. | Ø OUT. | WEIGHT | W.P. | B.P. | VACUUM | BENDING | COIL LGTH. | VOLUME |
| | | mm | mm | g/m | bar | bar | m H ₂ O | mm | m | m ³ |
| CLAMP BS 4825 p.123 | WK010127025100* | 12,7/ 1/2" | 25,1 | 530 | 10 | 40 | 10 | 45 | 4 | 0,003 |
| | WK010190031400* | 19,05/ 3/4" | 31,4 | 700 | 10 | 40 | 10 | 65 | 4 | 0,004 |
| | WK010254037800* | 25,4/ 1" | 37,8 | 970 | 10 | 40 | 10 | 80 | 4 | 0,006 |
| | WK010318044200* | 31,8/ 1 1/4" | 44,2 | 1050 | 10 | 40 | 10 | 120 | 4 | 0,008 |
| | WK010381050500* | 38,1/ 1 1/2" | 50,5 | 1410 | 10 | 40 | 10 | 150 | 4 | 0,010 |
| | WK010508063200* | 50,8/ 2" | 63,2 | 1660 | 10 | 40 | 10 | 180 | 4 | 0,016 |
| | WK010635075900* | 63,5/ 2 1/2" | 75,9 | 2000 | 7 | 28 | 10 | 220 | 4 | 0,023 |
| | WK010762088600* | 76,2/ 3" | 88,6 | 2430 | 4 | 16 | 10 | 250 | 4 | 0,032 |
| | WK011016114000* | 101,6/ 4" | 114 | 3000 | 3 | 12 | 10 | 360 | 4 | 0,052 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.
*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.
The technical data here reported have been measured at 23°C with 50% umidity.



ES

Tubo translucido, de TPE-S farmacéutico para bombas peristálticas, desarrollado para aplicaciones en ambiente farmacéutico, cosmético y alimentario. El tubo de TPE y de baja porosidad reduce los riesgos de permeación; no altera las propiedades organolépticas de las sustancias transportadas. Buena resistencia química a ácidos y soluciones alcalinas. Resistente al alcohol en concentraciones máximas del 50%. Es posible soldarlo y sigilarlo en calor incluso con otros materiales sin tener que recurrir a elementos de conexión, asegurando una extrema estabilidad en el flujo. Su impermeabilidad es superior a los elastómeros de silicona. Instalado en bombas peristálticas, tiene una duración superior a otros tubos presentes en el mercado (duración media >190 horas. Prueba realizada en una bomba trilobular a 600 rpm). Fenómeno de "spallation" mínimo en las extremidades de la bomba. Normas: ISO 10993-5 (No citotóxico); ISO 10993-4 (No hemolítico, método directo e indirecto); USP <88> CLASS VI; USP <661> (Physicochemical Tests-plastics); UE 10/2011 (clases A, B, C, D1); FDA CFR-21-177.2600. Material curing free: IPL Crystal clear-55 no requiere ningún proceso de vulcanización, con lo que se evita el riesgo de extracción de residuos de vulcanización en el producto final y que permite reducir el consumo de energía y las emisiones de CO₂.

CÓD. CL N7/CL N9
Ø mm 3,2-12,7



EN

Translucent hygienic TPE pharma-grade tubing for peristaltic pumps specifically engineered for applications within food, pharmaceutical, biotech and cosmetic industries. Tube features: the extruded, low porosity TPE tube reduces permeation problems. Highly neutral in taste and odor, it preserves the organoleptic properties of the medium. Good chemical resistance to acids and alkaline solutions. Versatile rubber resistant also to alcohols with max. 50% content. Much more impermeable than silicone elastomers. Superior working life on peristaltic pumps when compared with similar tubings of the competition (average working life >190 hours when tested on a 3 lobes pump with 600 turning/minute) and minimal spallation on pump heads. Standards: ISO 10993-5 (Non cytotoxic)/ISO 10993-4 (Non haemolytic, direct and indirect methods)/USP <88> CLASS VI/USP <661> Physicochemical Tests-plastics/EU Regulation n° 10/2011 (classes A, B, C, D1)/FDA Reg. CFR 21-177.2600. Curing-free material: IPL Crystal Clear-55 does not need any vulcanization process, therefore it prevents the risk of leaching of curing agent residues into the end product (peroxide or platinum volatile rests) and allows to save energy sources and limit CO₂ emissions.

• En la industria farmacéutica, cosmética y alimentaria, usado en bombas peristálticas, sistema de dosificación de líquidos, envasado y dispenser, procesos de síntesis, procesos de purificación y separación, aplicaciones en laboratorio, dosificación de jabones, cremas y detergentes. Dosificación de bebidas, zumo de fruta, salsas, líquidos viscosos (jarabes), aguas y aguas purificadas. Para los productos lácteos con bajo contenido en grasa. Es posible soldarlo y sigilarlo en calor incluso con otros materiales sin tener que recurrir a elementos de conexión, asegurando una extrema estabilidad en el flujo.

• Ideal solution for peristaltic pumps working in the pharmaceutical, cosmetic and food sectors. Typical applications: dosing of pharmaceutical fluids, sterile filling and dispensing systems, cell culture media, synthetic processes, purification and separation processes, laboratory applications, dosing of soaps, cremes, detergents. Dosing of juices, alcohols, sauces, viscous fluids (syrups), waters and purified waters. For milk and low fat products. For dispensers of beverages. Heat sealable and quick welding of multiple lengths, which can be assembled without the need of connectors. This ensures the stability of the flow.

Tubo de goma TPE-S higiénica
TPE-S hygienic rubber hose



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | Ø EST. | MIN ESP. | PESO | P.T. | VACIO | R. CURVATURA | LG. ROLLO | VOLUMEN | PACKAGING |
|--------------------------------|----------------|------------|--------|--------------|--------|------|--------------------|--------------|------------|----------------|--------------|
| | CODE | Ø INT. | Ø OUT. | MIN WALL TH. | WEIGHT | W.P. | VACUUM | BENDING | COIL LGTH. | VOLUME | PACKAGING |
| | | mm | mm | mm | g/m | bar | m H ₂ O | mm | m | m ³ | |
| | CLN90032006400 | 3,2/ 1/8" | 6,4 | 1,6 | 20 | 0,9 | 640 | 13 | 15,2 | 0,006 | min 10 boxes |
| | CLN90032008000 | 3,2/ 1/8" | 8 | 2,4 | 40 | 1,1 | 680 | 13 | 15,2 | 0,006 | min 10 boxes |
| | CLN90048008000 | 4,8/ 3/16" | 8 | 1,6 | 30 | 0,9 | 540 | 19 | 15,2 | 0,006 | min 10 boxes |
| | CLN90048009500 | 4,8/ 3/16" | 9,6 | 2,4 | 50 | 0,9 | 540 | 19 | 15,2 | 0,006 | min 10 boxes |
| | CLN90063009500 | 6,35/ 1/4" | 9,55 | 1,6 | 35 | 0,7 | 410 | 32 | 15,2 | 0,006 | min 10 boxes |
| | CLN90063011100 | 6,35/ 1/4" | 11,15 | 2,4 | 60 | 1,1 | 640 | 32 | 15,2 | 0,006 | min 10 boxes |
| | CLN90063012700 | 6,35/ 1/4" | 12,75 | 3,2 | 85 | 1,2 | 680 | 38 | 15,2 | 0,006 | min 10 boxes |
| | CLN90079011100 | 7,9/ 5/16" | 11,1 | 1,6 | 40 | 0,6 | 260 | 55 | 15,2 | 0,006 | min 10 boxes |
| | CLN90079012700 | 7,9/ 5/16" | 12,7 | 2,4 | 70 | 0,9 | 450 | 63 | 15,2 | 0,006 | min 10 boxes |
| | CLN90095012700 | 9,5/ 3/8" | 12,7 | 1,6 | 50 | 0,5 | 225 | 67 | 15,2 | 0,006 | min 10 boxes |
| | CLN90095014300 | 9,5/ 3/8" | 14,3 | 2,4 | 80 | 1 | 600 | 52 | 15,2 | 0,030 | min 15 boxes |
| | CLN70095012700 | 9,5/ 3/8" | 12,7 | 1,6 | 50 | 0,5 | 225 | 67 | 7,5 | 0,006 | min 10 boxes |
| | CLN70095014300 | 9,5/ 3/8" | 14,3 | 2,4 | 80 | 1 | 600 | 52 | 7,5 | 0,030 | min 15 boxes |
| | CLN70095015900 | 9,5/ 3/8" | 15,9 | 3,2 | 115 | 1 | 600 | 52 | 7,5 | 0,030 | min 15 boxes |
| | CLN70127017500 | 12,7/ 1/2" | 17,5 | 2,4 | 100 | 0,6 | 430 | 76 | 7,5 | 0,030 | min 15 boxes |
| | CLN70127019100 | 12,7/ 1/2" | 19,1 | 3,2 | 140 | 0,9 | 410 | 76 | 7,5 | 0,030 | min 15 boxes |

+80°C
-20°C

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

Los datos técnicos indicados se midieron a 23°C y 50% de humedad.

The technical data here reported have been measured at 23°C with 50% humidity.

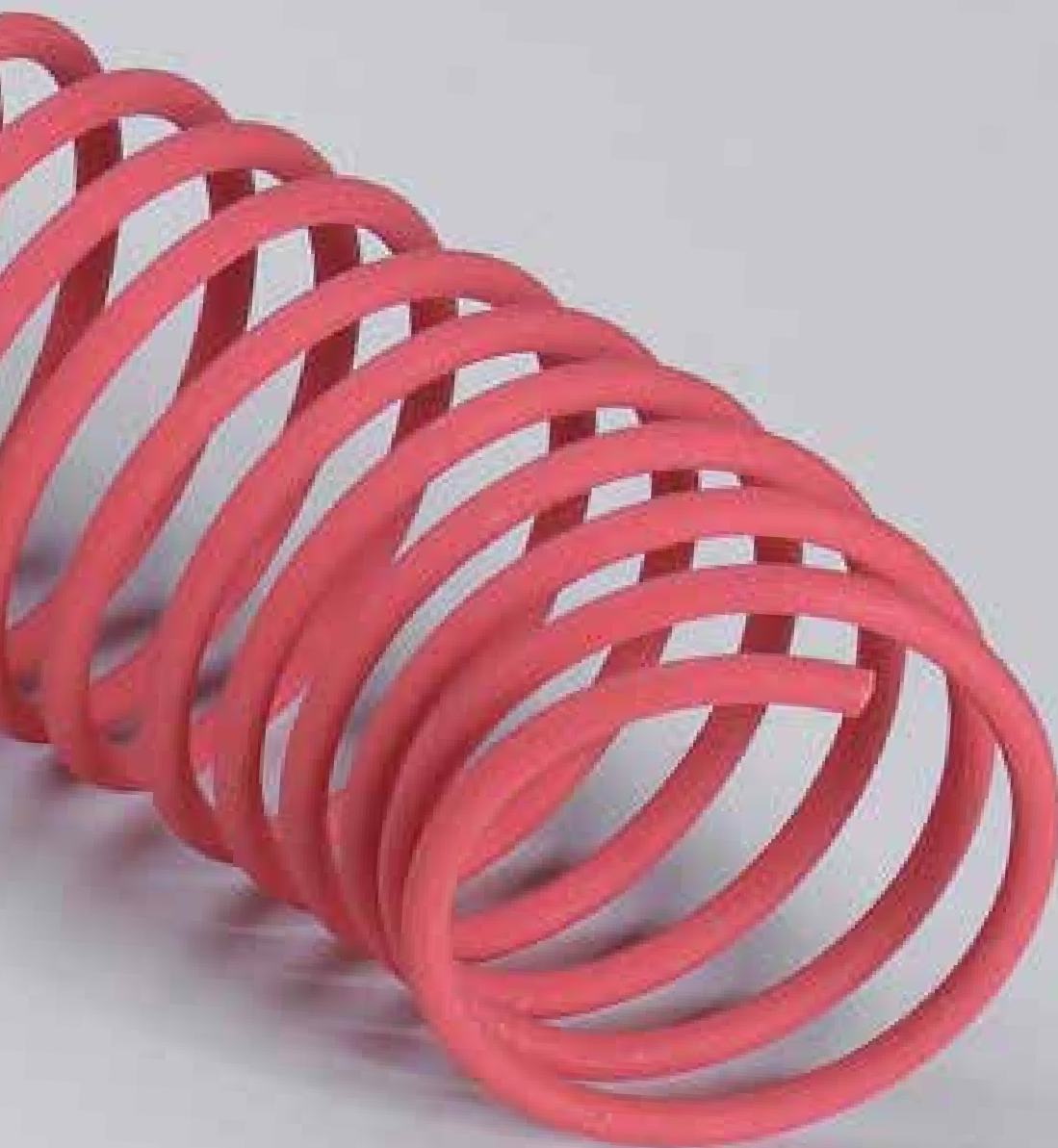
SERIE TPE-S FARMA

Pharma grade TPE-S series

HIGH PURITY

Cod. HK/HA/HS





ABRAZADERAS

DOBLE PUENTE W2/
DOUBLE BRIDGE W2

CLAMP BS 4825

MORDAZAS REUTILIZABLES/
REUSABLE FERRULES

ESPIRAL/
BANDING COIL

SISTEMAS DE CONEXIÓN CONNECTING SYSTEMS

ABRAZADERAS DOBLE PUENTE W2

DOUBLE BRIDGE W2

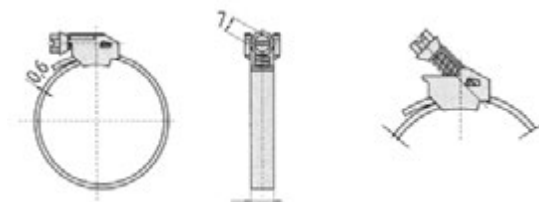
ES **Banda de acero inox 430**, tornillos de acero galvanizado con tratamiento de galvanización blanca trivalente, exento de cromo VI (según Dir. EU RoHS). Banda con cajón plegable que garantiza una extrema versabilidad y rapidez en el utilizo, especialmente en tubos de gran diámetro. La banda es completamente dentada con bordes redondeados para proteger los tubos de posibles daños.

- Instalaciones de acondicionamiento, ventilación y aspiración.

EN **430 SS band and housing**, RoHS compliant zinc plated screw. Tilting housing worm-drive clamps guarantee versatile and quick application especially on large diameter hoses. The toothed band and bevelled edges protect the hose from damages.

- Air conditioning, ventilation systems and suction plants

CÓD. F2 W2



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | RANGO DIÁMETRO | ANCURA BANDA |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|--------------|
| | CODE | RANGE Ø | BAND WIDTH |
| | | mm | mm |
| <p>Disponible para los siguientes rangos, en diámetros no inferiores a 14 mm:</p> <p><i>Available for the following product ranges, for the sizes with pitch rating not inferior to 4 mm:</i></p> <p>VZ 01 - ZR 01 - VT 01 - W4 01 - VR FR - VM FR - VB 01 - VK 01 - EB 01 - VO 01 - VC 01 - VI 01 - TR 01 - H1 01 - N9 ET - N9 01 - N7 01 - N5 01</p> <p>Es responsabilidad del usuario verificar y confirmar la idoneidad del sistema conectado y su aplicación. IPL declina toda responsabilidad en caso de uso indebido de sus sistemas y cuando el montaje sea realizado por terceros.</p> <p>It is responsibility of the user verify and confirm the suitability of the assembled system and relative application. IPL declines any responsibility for a misapplication of its assembled systems and where its hoses have been fitted by third parties.</p> | F2 W2 076.0 090.0 | 75 | 9 |
| | | 76 | 9 |
| | | 80 | 9 |
| | | 82 | 9 |
| | | 89 | 9 |
| | | 90 | 9 |
| F2 W2 100.0 127.0 | 100 | 9 | |
| | 102 | 9 | |
| | 104 | 9 | |
| | 110 | 9 | |
| | 115 | 9 | |
| | 118 | 9 | |
| | 120 | 9 | |
| | 122 | 9 | |
| | 125 | 9 | |
| | 127 | 9 | |
| F2 W2 130.0 190.0 | 130 | 9 | |
| | 140 | 9 | |
| | 150 | 9 | |
| | 152 | 9 | |
| | 160 | 9 | |
| | 165 | 9 | |
| | 170 | 9 | |
| | 175 | 9 | |
| | 180 | 9 | |
| | 182 | 9 | |
| | 200 | 9 | |
| | 203 | 9 | |
| F2 W2 200.0 230.0 | 205 | 9 | |
| | 206 | 9 | |
| | 210 | 9 | |
| | 220 | 9 | |
| | 225 | 9 | |
| | 228 | 9 | |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

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CLAMP BS 4825

(ES) Sistema de conexión constituido por una unión clamp BS 4825 Material: acero inox 316 L. Disponible bajo pedido unión DIN 11851 y otros modelos.

• Industria alimentaria y farmacéutica, allí donde es necesario un nivel alto de estándar higiénico.

(EN) Connecting systems: clamps BS 4825

Material: stainless steel 316 L

• food and pharmaceutical industries, where high hygienic standards are required.



Es responsabilidad del usuario verificar y confirmar la idoneidad del sistema conectado y su aplicación. IPL declina toda responsabilidad en caso de uso indebido de sus sistemas y cuando el montaje sea realizado por terceros.

It is responsibility of the user verify and confirm the suitability of the assembled system and relative application.

IPL declines any responsibility for a misapplication of its assembled systems and where its hoses have been fitted by third parties.



| FICHA TÉCNICA · TECHNICAL DATA | CLAMP REF. | Ø INT. DE MANGUERA | Ø CLAMP | Ø HOSE BARB ID |
|--------------------------------|------------|--------------------|---------|----------------|
| | | HOSE INS. Ø | Ø TC | |
| | inch | mm | mm | mm |
| | 1/2" | 13 | 25,1 | 10,0 |
| | 3/4" | 20 | 25,1 | 15,6 |
| | 1" | 25 | 50,4 | 19,5 |
| | 1" 1/2 | 38 | 50,4 | 32,0 |
| | 2" | 50,8 | 64,0 | 44,0 |

*Disponible bajo pedido, para cantidades a convenir con el departamento de ventas.

*Available on request, contact our sales office for more info and quantities.

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The technical data here reported have been measured at 23°C with 50% humidity.

MORDAZAS REUTILIZABLES

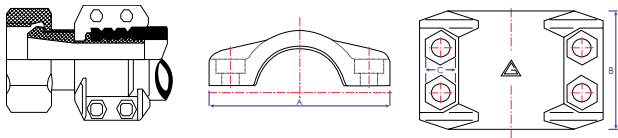
REUSABLE FERRULES

ES **Sistema de conexión:** abrazadera con 4 tornillos, reutilizables según EN 14420 (DIN 2817), de acero inoxidable AISI-316L o de aluminio.

APLICACIONES: industria alimentaria y farmacéutica, allí donde se requiere un alto estándar higiénico.

EN **Connection system:** ferrules with screws, reusable according to EN 14420 (DIN 2817), made of stainless steel 316 L or aluminium

• food and pharmaceutical industries, where high hygienic standards are required



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IPL declines any responsibility for a misapplication of its assembled systems and whereas its hoses have been assembled by third parties.



| FICHA TÉCNICA - TECHNICAL DATA | MANGUERAS HOSES | Ø MIN-MAX | DIMENSIÓN DIMENSION | | BOLT BOLT | | MATERIAL |
|--------------------------------|--------------------|-----------|------------------------|----|------------------|------|--------------------------------------------------------------------|
| | | | A | B | Longitud/ length | C | MATERIAL |
| | 13x23,5 | 22-24 | 56 | 50 | M6X20 | 10,7 | Aluminio/acero inoxidable 316 L Aluminium/stainless steel 316 L |
| | 20x32 | 30x33 | 65 | 50 | M6X20 | 10,7 | Aluminio/acero inoxidable 316 L Aluminium/stainless steel 316 L |

Los datos técnicos indicados se midieron a 23°C y 50% de humedad. *The technical data here reported have been measured at 23°C with 50% umidity.*
 *Disponibile su richiesta, per quantitativi da concordare con l'ufficio vendite. **Available on request, contact our sales office for more info and quantities.*

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ESPIRAL WATER/ ESPIRAL ENO BANDING COIL WATER/ BANDING COIL ENO

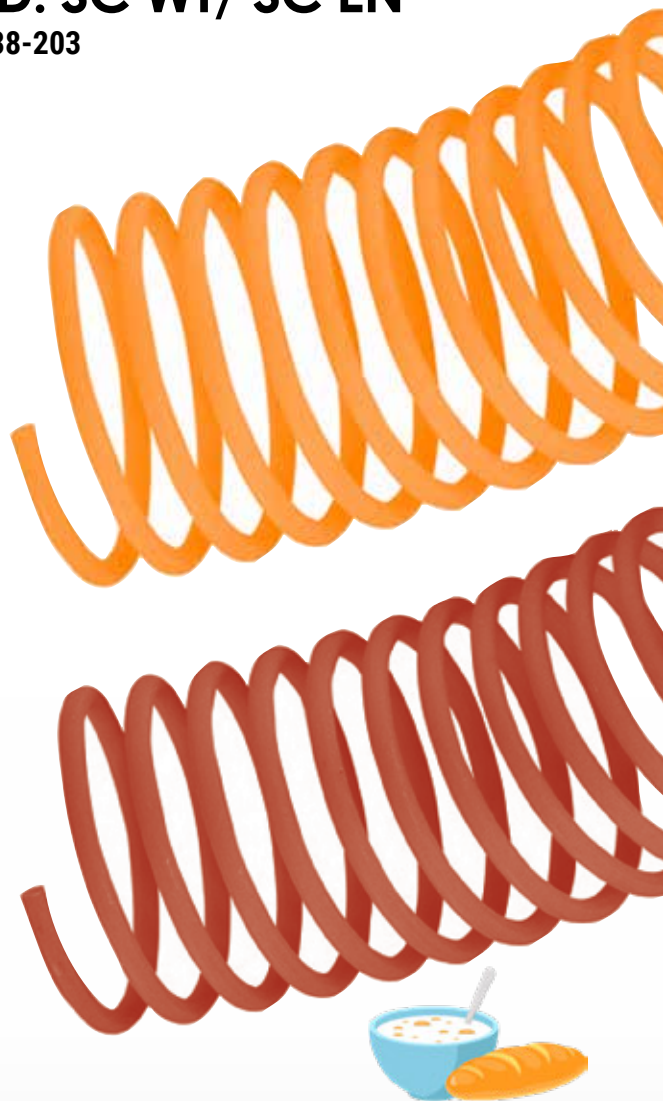
(ES) Espiral de PVC rígido (de color rojo o naranja), especialmente diseñada para adaptarse entre las espirales de refuerzo de la manguera, siguiendo su paso. El montaje es rápido y sencillo, gracias a que la abrazadera descansa sobre una superficie lisa.

• Se utiliza en mangueras de la serie Spiralpress, respectivamente con cód. SC EN para mangueras spiralpress ENO y cód. SC WT, para mangueras spiralpress WT y spiralpress OIL.

(EN) Rigid PVC banding coil (red or orange coloured), specially designed to fit into the area between the reinforcing spirals of the hose, following its pitch. As a result, fitting is quick and easy, as the band rests on a smooth surface.

• Used on Spiralpress series hoses, respectively with SC EN code for spiralpress ENO and SC WT code , for both spiralpress WT and spiralpress OIL.

CÓD. SC WT/ SC EN
Ø mm 38-203



| FICHA TÉCNICA · TECHNICAL DATA | CÓDIGO | Ø INT. | PESO | LG. ROLLO |
|-----------------------------------------------------------------------|---------------|--------------|---------------|------------|
| | CODE | Ø INT. mm | WEIGHT g/m | LGTH mm |
| ARTÍCULOS DE LA MISMA SERIE ITEMS IN THE SAME SERIES | SCWT038000000 | 38,1 | 310 | 153 |
| | SCWT040000000 | 40 | 305 | 152 |
| | SCWT050000000 | 50 | 470 | 180 |
| | SCWT050800000 | 50,8 | 475 | 180 |
| | SCWT060000000 | 60 | 505 | 203 |
| | SCWT076000000 | 76,2 | 835 | 225 |
| | SCWT080000000 | 80 | 1050 | 225 |
| | SCWT100000000 | 100 | 1200 | 240 |
| | SCWT102000000 | 101,6 | 1255 | 240 |
| | SCWT127000000 | 127 | 1460 | 292,5 |
| | SCWT152000000 | 152,4 | 2170 | 322,5 |
| | SCWT203000000 | 203,2 | 3455 | 375 |



SPIRALPRESS WT (cód. WT) p.72



SPIRALPRESS ENO (cód. BS EN) p.111



SPIRALPRESS OIL (cód. SQ) p.65

Los datos técnicos indicados se midieron a 23°C y 50% de humedad. *The technical data here reported have been measured at 23°C with 50% umidity.*
 *Disponibile su richiesta, per quantitativi da concordare con l'ufficio vendite. **Available on request, contact our sales office for more info and quantities.*

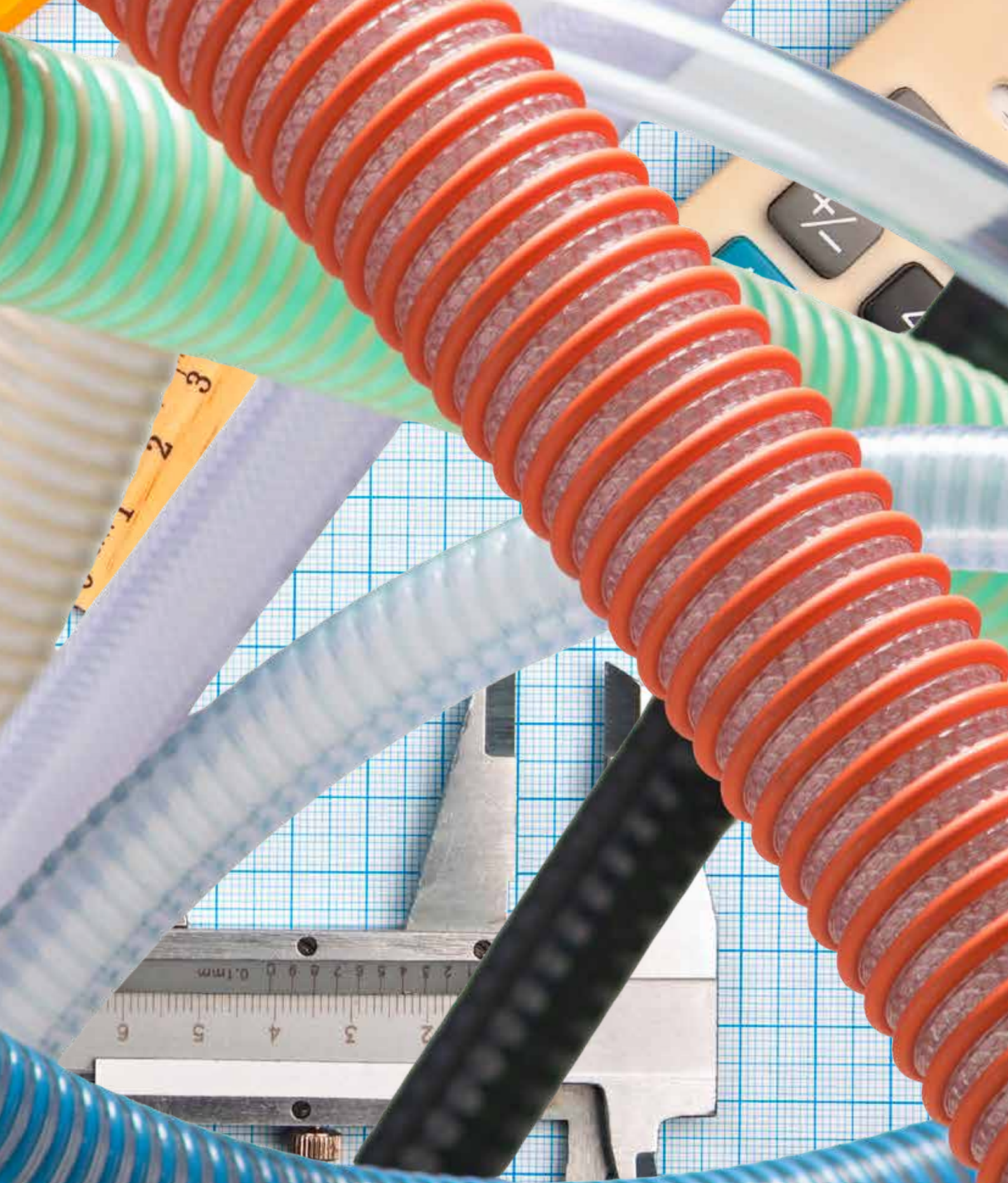
IPL se reserva el derecho a realizar cambios en la información aquí contenida y/o a interrumpir un producto sin previo aviso.
 We reserve the right either to alter specifications and discontinue products without prior notice

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NEW IPL WEBSITE



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INFORMACIÓN TÉCNICA

TECHNICAL APPENDIX

POLIURETANO A BASE DE ÉSTER Y A BASE DE ÉTER

El poliuretano es uno de los polímeros con mayor grado de resistencia a la abrasión. En las mangueras esto es una consecuencia del paso de material de diferente naturaleza, forma y tamaño a alta velocidad. El poliuretano a base de éster ofrece el mayor rendimiento en estos términos, mejor que el poliuretano a base de éter, que por otra parte ofrece una excelente resistencia a los microbios y al fenómeno de la hidrólisis, que típicamente suele producirse como consecuencia del transporte de material húmedo o mojado. El poliuretano atacado por microorganismos pierde su elasticidad y resistencia, deshaciéndose en poco tiempo. La preferencia es por el poliuretano a base de éster cuando se requiere el máximo rendimiento contra la abrasión y si se transportan polvos y gránulos secos y poliuretano a base de éter cuando el peligro de formación de microbios es altamente probable, como en el caso de los gránulos y polvos húmedos, en sector de la limpieza de calles y los procesos que involucran tierra, grava, arena.

POLIURETANO CONDUCTOR

El Poliuretano puede ser enriquecido con aditivos, que mejoran sus propiedades. En este caso a la materia prima se le añade "negro de humo", que le da al poliuretano una resistencia eléctrica permanente de $R < 104 \text{ Ohm/metro}$. El tubo es totalmente conductor de la electricidad, de acuerdo con los requisitos de la norma internacional ATEX, que regula los entornos y los equipos con riesgo de explosión. Por lo tanto, se prefiere el tipo de manguera electro conductora cuando se transportan sustancias que son particularmente susceptibles de crear cargas eléctricas al ser transportadas a gran velocidad y así evitar el peligro de explosión.

GOMA TERMOPLÁSTICA (TPE-S)

Los elastómeros termoplásticos libres, en TPE o gomas termoplásticas, son una clase de copolímeros, es decir, una mezcla polimérica (generalmente un plástico y un caucho) con propiedades tanto termoplásticas como elastoméricas.

Los elastómeros termoplásticos son reciclables ya que pueden ser moldeados, extruidos y reutilizados como plástico. Las gomas termoplásticas (TPE-S) garantizan la máxima pureza. Los elastómeros termoplásticos utilizados no requieren ningún proceso de vulcanización, con lo que se evita el riesgo de extracción de partículas volátiles y residuos de vulcanización en el producto final (fenómeno llamado "lixiviación"); se diferencian de otros materiales, para los cuales la extracción de partículas volátiles a altas temperaturas es inevitable. Esto resulta en un riesgo mínimo de contaminación, hinchazón, formación de depósitos pegajosos invisibles en las superficies. Entre las ventajas de usar TPE incluyen:

- Resistencia al envejecimiento atmosférico (UV, ozono)
- Resistencia a la temperatura;
- Resistencia a la abrasión y desgarradura Memoria elástica y excelente procesabilidad
- transparencia.
- La neutralidad del olor y el sabor del TPE permite un procesamiento altamente higiénico de productos farmacéuticos y alimenticios como leche, yogur, zumos de fruta, bebidas vinosas, licores y sustancias con una concentración de alcohol de hasta el 96%, salvaguardando la salud del consumidor, que puede contar con un sistema seguro y no contaminado.
- Por último, los elastómeros termoplásticos sin curar utilizados por IPL ahorran costes y energía durante el proceso de producción, reduciendo las emisiones de CO_2 a la atmósfera.

ESTER AND ETHER BASED POLYURETHANE

Polyurethane is one of the most abrasion resistant polymers. As regards flexible hoses, abrasion is the result of the passage at high speed of media of different kind, shape and material. Ester-based Polyurethane offers the top performance in terms of abrasion resistance, better than that of ether-based Polyurethane. On the other hand ether-based Polyurethane offers an excellent resistance to microbes attacks and hydrolysis phenomenon, which often occur as a consequence of delivering humid or wet materials. When attacked by microbes, Polyurethane loses its flexibility and resistance properties, crumbling in a short time. On one hand ester-based Polyurethane is usually preferred whereas the highest abrasion resistance is required and in case of delivery of powders or dry granules.

On the other hand ether-based Polyurethane is recommended when microbes are likely to form, as humid granules and powders are concerned, included street cleaning or applications which involve the presence of soil, gravel and sand.

ELECTRICAL CONDUCTIVE POLYURETHANE

Polyurethane can be enriched with additives which increase its properties, as proved by electrical conductive Polyurethane. In this case some "carbon black" is added to the raw material, giving the Polyurethane a permanent electrical resistance of $R < 10^4 \text{ Ohm/meter}$.

The hose thus becomes completely electrical conductive, in compliance with the requirements set out by the international Standard ATEX, on equipment and protective systems intended for use in potentially explosive atmospheres. This type of product is usually preferred when substances likely to generate electrical charges at high speed are transferred.

THERMOPLASTIC RUBBER (TPE)

Thermoplastic elastomers (TPE), sometimes referred to as thermoplastic rubbers, are a class of copolymers or a physical mix of polymers (usually a plastic and a rubber) which consist of materials with both thermoplastic and elastomeric properties TPE materials have the potential to be recyclable since they can be molded, extruded and re-used like plastics. TPE ensure the utmost purity: the TPE elastomers used by IPL do not require any "curing agents" as well as they do not need any vulcanization process or post-curing; the absence of curing chemicals prevents risks of release of volatile chemical parts into the medium delivered (the phenomenon called " leaching" of residues from raw materials).

This means a minimum risk of contamination, swelling or formation of sticky invisible residues on the surfaces. Among the benefits of TPE use are:

- Resistance to ageing and weather condition (UV, ozone,...)
- Resistance to temperature
- Resistance to abrasion and cracking
- Good compression set and excellent processability
- transparency, highly neutral in taste and odor TPE options allow the pharmaceutical and food industries to process products as milk, yogurt, juices, beverages, wines, spirits with an alcoholic concentration up to 96% in a clean hygienic way meeting the most demanding standards, safeguarding the health of consumers at highest level. At least but not less important, curing free TPE used by IPL allow to save energy sources and limit CO_2 emissions.

IPL PHTHALATES FREE HOSES

What are phthalates. They are a category of chemical compounds, especially esters of phthalic acid, mainly used in the plastic industry as plasticizers, additives to the polymer that increase the performance of the material in terms of flexibility and processability. Therefore in

TUBOS IPL SIN FTALATOS

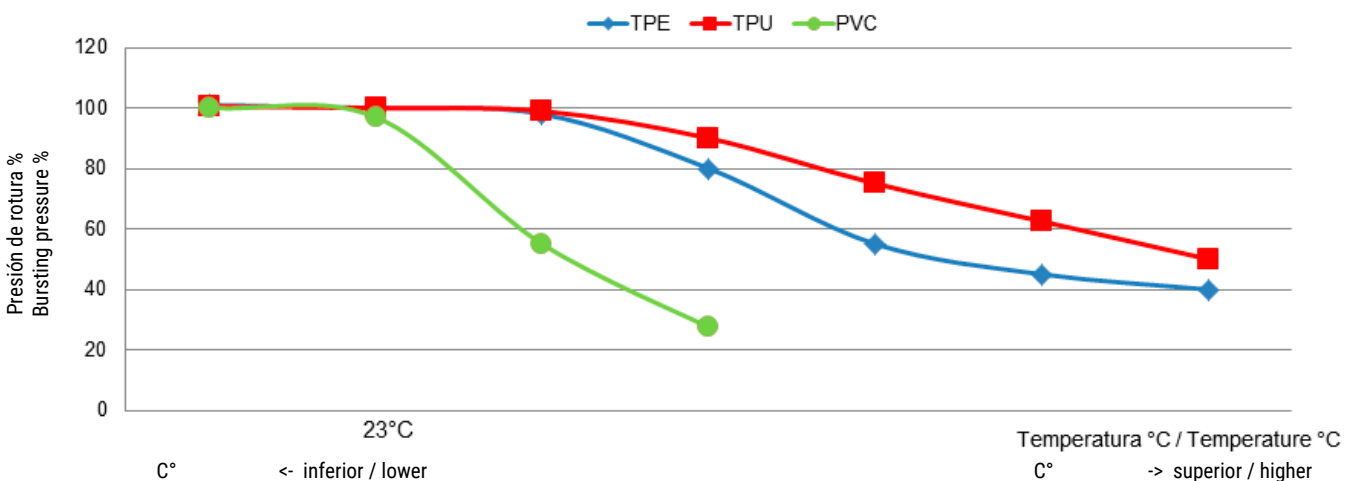
¿Qué son los ftalatos? Los ftalatos son una familia de compuestos químicos, en este caso los ésteres de ácido ftálico, utilizados en la industria del plástico como agentes plastificantes, es decir, como sustancias añadidas al polímero para mejorar su flexibilidad y capacidad de trabajo. De hecho, en el PVC-P se utilizan plastificantes para lograr un mayor grado de flexibilidad que en el PVC-U.

La adición de ftalato al PVC permite que las moléculas del polímero se deslicen una sobre otra suave y moldeable incluso a bajas temperaturas. Los ftalatos se utilizan principalmente en la PVC-P y se dividen en: Ftalatos de bajo peso molecular (C8) ex DINP, DIDP, etc., que no presentan un riesgo y, por lo tanto, no están incluidos en la lista de candidatos o sustancias sujetas a autorización en virtud del estándar REACH, su uso está restringido a la industria de los juguetes y el cuidado de los niños, que pueden entrar en contacto directo con los niños.

Además de los ftalatos, hay otros plastificantes que pueden utilizarse en el PVC. Es posible sustituir los plastificantes ftálicos por otros plastificantes de distinta naturaleza como, por ejemplo: DOTP, ésteres de ciclohexano (DINCH), poliméricos, alifáticos (DOA). La elección de los plastificantes debe hacerse teniendo en cuenta el rendimiento mecánico, la tendencia a la migración y el comportamiento del agrietamiento por tensión hacia el refuerzo helicoidal en las mangueras en espiral. IPL HA ELEGIDO PARA USAR EXCLUSIVAMENTE COMPUESTOS DE VINILO LIBRES DE FTALATOS.

TENDENCIA DEL RENDIMIENTO HIDROSTÁTICO DE LOS TUBOS DE MATERIAL TERMOPLÁSTICO

El siguiente gráfico muestra el rendimiento hidrostático de las mangueras de material termoplástico. Vale la pena recordar que en el campo de las mangueras de material termoplástico los valores relativos a la presión de trabajo y la presión de aspiración o vacío, están relacionados con la temperatura de uso a la que se somete la manguera. Los datos que figuran en el gráfico son teóricos y no constituyen en ningún caso especificaciones del producto o de la aplicación. El usuario está obligado a evaluar por anticipado la idoneidad de la manguera y relativa aplicación y, por lo tanto, asume todos los riesgos y responsabilidades que surge de su elección. IPL declina toda responsabilidad en caso de uso indebido de sus productos.



PVC-P the plasticizers are used to reach a higher degree of flexibility than that of PVC-U. When added to PVC, phthalates allow the long polyvinyl molecules to slide against one another, softening and making the material mouldable even at low temperatures. The Phthalates are widely used in PVC-P and are divided as : low-molecular-weight Phthalates (C8) former DINP, DIDP, etc., which are not considered hazardous and are not included in the list of substances submitted to authorization by Reg. Reach: however they have a restriction as toys and child care articles are concerned, which may come into direct contact with the baby or child. In addition to Phthalates are others plasticizers which can be used in PVC. It's possible to replace the phthalatic plasticizers with others different plasticizers, such as: DOTP, Cyclohexane esters (DINCH), Polymeric, Aliphatic esters (DOA) The choice of plasticizers must be carried taking into account the mechanical performances, the risk of leaching (volatile rests), stress cracking behaviour in relation to the spiral reinforcement of the hose. IPL FOOD AND PHARMACEUTICAL PRODUCTS RANGE ARE CONSCIOUSLY MANUFACTURED USING EXCLUSIVELY PHTHALATES FREE COMPOUNDS.

TREND OF WORKING PRESSURE RELATED TO THERMOPLASTIC HOSES

The graph below demonstrates the overall trend of hydrostatic performance of the thermoplastic Hoses. As a general rule, working pressure and vacuum ratings can be affected by the temperature to which the hose is exposed in service.

The data contained in the chart do not constitute product or application specification and exclusively provide theoretical information for the expected performance

Before using any hose the user is responsible for determining the suitability of the hose for the intended application and he assumes all the risks and responsibility deriving from his choices.

REGLAMENTO (UE) N.º 10/2011

Los materiales y artículos destinados a entrar en contacto con alimentos están regulados por medidas tanto nacionales como comunitarias. En cuanto a Reglamento comunitario, la (CE) n. 1935/2004 establece los requisitos generales a los que todos los materiales y objetos en cuestión, mientras que las medidas específicas contienen disposiciones detalladas para cada uno de los materiales (plásticos, cerámica, etc.). En particular, el reglamento estipula que todos los materiales y objetos deben ser producidos de acuerdo con unas buenas prácticas de fabricación (Reg. 2023/06/EC - GMP) y, en condiciones normales o previsibles de uso, no deben transferir componentes a los alimentos en una cantidad tal que constituyen un peligro para la salud humana, provocar un cambio inaceptable en la composición de los alimentos, provocar un deterioro de las características organolépticas. El Reglamento (UE) 10/2011 (PIM) es una medida específica de conformidad con el artículo 5 del Reglamento Marco (CE) 1935/2004 y establece normas específicas para la fabricación y comercialización de materiales y artículos de plástico. El Reglamento 10/2011 establece: - una lista de sustancias autorizadas para la fabricación de materiales y artículos, y posibles restricciones;

límites de migración globales y/o específicos, simulantes y condiciones para las pruebas de conformidad. - los requisitos para la declaración de conformidad. Todas las mangueras alimentarias y farmacéuticas de la gama de IPL cumplen con la normativa europea, respetando y salvaguardando la salud del consumidor.

FDA

La Administración de Alimentos y Medicamentos (Agencia de Alimentos y Medicamentos, abreviada como FDA) es la agencia del gobierno de los EE. UU. que se ocupa de la regulación de los productos alimenticios y farmacéuticos. La FDA tienen como objetivo proteger la salud de los ciudadanos a través de reglamentos que controlan la comercialización de los productos bajo su jurisdicción, incluidos los medicamentos, alimentos y jurisdicción, incluyendo drogas, alimentos, cosméticos, productos veterinarios, dispositivos médicos, productos biológicos y productos del tabaco. Dentro del Código de Regulaciones Federales, la regulación de la FDA está publicada en bajo el Título 21 (CFR 21) e incluye varias partes que con las específicas de cada categoría de material. Entre las herramientas de control incluyen tanto las evaluaciones previas a la comercialización como la vigilancia posterior a la misma.

USP CLASS VI

La Farmacopea de los Estados Unidos (USP) establece normas para garantizar la calidad de las drogas y otras tecnologías de atención de la salud. Entre estos las normas incluyen las relacionadas con las pruebas de reactividad biológica para "elastómeros, plásticos y otros materiales poliméricos con los que el paciente puede, directa o indirectamente, entrar en contacto", definiendo una subdivisión en seis clases.

De estos, la clase VI tiene el protocolo de pruebas más estricto:

- Pruebas de toxicidad sistémica;
- Prueba de reactividad intercutánea;
- pruebas de implantes.



REG. (EU) N. 10/2011

Products and materials intended to come into contact with foodstuff are regulated both by national and EU standards. As regards EU Regulation (CE) n. 1935/2004, it sets the general requirements for the materials and products here involved, whereas specific proceedings include detailed provisions for each single material (plastic materials, ceramics, etc). In particular the regulation sets that all the materials and products should be manufactured under GMP - Good Manufacturing Practice - according to Regulation (CE) N. 2023/2006 regarding manufacturing good practice of materials and goods intended to come into contact with foodstuff and in normal condition of use, they must not transfer to it elements in such a quantity that:

- *may represent a danger for human health*
- *may cause an unacceptable variation of the foodstuff composition*
- *may lead to a deterioration of the organoleptic properties* Eu Regulation 10/2011 (PIM = plastic implementation measure) represents a specific measure under Art. 5 of the General Directive (CE) 1935/2004 and it sets specific standards for manufacturing and sale of plastic materials and products.
- *Eu Reg. 10/2011 establishes:*
- *A list of approved substances used to manufacture materials and products and their restrictions;*
- *Specific conditions and limits of migration and simulants to be used;*
- *Requirements of Declaration of Compliance.*
- *All IPL food and pharmaceutical hoses are compliant to this European Regulation, in order to safeguard the health of consumers.*



FDA REGULATION

The US FDA (Food and Drug Administration) is responsible for protecting and promoting public health through the regulation and supervision of food safety. Issued in 1997 by Food & Drug Administration, the Regulation aims to safeguard the health of consumers through standards that regulate the put on the market of pharmaceutical and bio, food, cosmetic, veterinary, tobacco products and medical devices. In the Code of Federal Regulations, FDA Regulation is issued as Title 21(CFR 21) and includes different and specific information according to the food category.

GMP

Las buenas prácticas de fabricación (GMP) se definen como el conjunto de aspectos de la producción y los ensayos que contribuyen para asegurar la calidad de un producto. Muchos países han establecido que las empresas de dispositivos médicos y/o farmacéuticos deben cumplir con los procedimientos de las GMP y han desarrollado las directrices de acuerdo con su sistema legislativo.

En general, los principios fundamentales de todas las directrices siguen siendo más o menos similares entre sí; lo que tienen en común es el objetivo final de salvaguardar la salud del paciente, así como para producir dispositivos médicos, medicinas o ingredientes farmacéuticos de buena calidad. Todas las directrices se basan en ciertos principios básicos: -Los procesos de producción están claramente definidos y controlados. Todos los procesos críticos se validan para asegurar la coherencia y la conformidad con las especificaciones.

- Los procesos de producción se supervisan y se evalúa cualquier cambio en el proceso. Los ajustes que tienen un impacto en la calidad del producto son validados, cuando es necesario.
- Las instrucciones y procedimientos están escritos en un lenguaje claro e inequívoco.
- Los operadores están capacitados para realizar y documentar los procedimientos.
- Todas las etapas de la producción se registran, ya sea manualmente o mediante instrumentos, a fin de demostrar que se siguen todos los procedimientos requeridos por instrucciones bien definidas y que la calidad del producto cumple las expectativas. Cualquier desviación es examinada y documentada. -Un registro de la producción (incluida la distribución), que permite rastrear
- la historia completa de un lote se mantiene en una forma accesible y comprensible.
- La distribución del producto minimiza cualquier riesgo para su calidad. -Se dispone de un sistema de rastreo, desde la venta o el suministro, de cualquier lote de productos.
- Se investigan las quejas sobre los productos vendidos, se investigan las causas y se adoptan las medidas adecuadas con respecto a el producto defectuoso y para asegurar que la no conformidad no vuelva a ocurrir en el futuro.

Las directrices de GMP no son instrucciones prescriptivas sobre cómo hacer un producto. Representan un conjunto de principios generales que deben observarse durante la producción.

Siempre que una empresa desarrolla su programa de gestión de calidad y de procesos de producción, puede utilizar una serie de herramientas a través de las cuales puede cumplir con los requisitos de GMP.

Es responsabilidad de la propia empresa determinar el proceso de calidad más eficaz y eficiente. Desde noviembre de 2010 IPL ha decidido adaptar sus procesos de producción a las directrices de las GMP como señal de respeto a sus clientes. En este sentido, todo el proceso de producción ha sido objeto de una reestructuración para cumplir con estos requisitos.



USP CLASS VI

The United States Pharmacopeia (USP) is a non-government organization that endorses public health by establishing up to the minute standards to safeguard the quality of medicines and other health care technologies. Among these standards are some regarding Tests designed to evaluate the biological reactivity of various types of plastics, elastomers and other polymer material which the patient may come into contact with. The USP defines six plastics classes, from I to VI, the last remains the class with the strictest requirements

- Systemic toxicity
- Intracutaneous reactivity
- Implantation test.



GMP A good manufacturing practice (GMP) is a production and testing practice that helps to ensure a quality product. Many countries have legislated that pharmaceutical and medical device companies must follow GMP procedures, and have created their own GMP guidelines that correspond with their legislation. Basic concepts of all of these guidelines remain more or less similar to the ultimate goals of safeguarding the health of the patient as well as producing good quality medical devices, medicine or active pharmaceutical products. All guidelines follow a few basic principles:

- Manufacturing processes are clearly defined and controlled. All critical processes are validated to ensure consistency and compliance with specifications.
- Manufacturing processes are controlled, and any changes to the process are evaluated. Changes that have an impact on the quality of the product are validated as necessary.
- Instructions and procedures are written in clear and unambiguous language.
- Operators are trained to carry out and document procedures. - Records are made, manually or by instruments, during manufacture that demonstrate that all the steps required by the defined procedures and instructions were in fact taken and that the quality of the product was as expected. Deviations are investigated and documented.
- Records of manufacture (including distribution) that enable the complete history of a batch to be traced are retained in a comprehensible and accessible form.
- The distribution of the product minimizes any risk to their quality. - A system is available for recalling any batch of product from sale or supply.
- Complaints about marketed products are examined, the causes of quality defects are investigated, and appropriate measures are taken with respect to the defective product and to prevent recurrence.

ATEX - DIRECTIVAS 2014/34/UE y 99/92/CE en materia de productos destinados a ser utilizados en atmósferas potencialmente explosivas. La Directiva entró en vigor el 30 de marzo de 2014 y deroga la Directiva 94/9/CE con efecto a partir del 20 de abril de 2016. Además de 2014/34/UE, también se aplica la Directiva 99/92/CE, que se refiere a los requisitos de seguridad en el lugar de trabajo, es por lo tanto pertinente para la parte operativa de las plantas y el equipo. La legislación clasifica equipo y áreas de aplicación en: Productos del grupo 1 (categoría M1 y categoría M2) y productos del grupo 2 (categorías 1,2,3). También divide las zonas en:

Zona 0: área en la que una atmósfera explosiva consistente en una mezcla de aire y sustancias inflamables en forma de gas, vapor o nube de polvo combustible está presente de forma continua o durante largos períodos. Zona 1: área en la que es probable que se produzca una atmósfera explosiva en forma de gas, vapor o nube de polvo en el funcionamiento normal.

Zona 2: área en la que no es probable que se produzca una atmósfera explosiva consistente en una mezcla de aire y sustancias inflamables en forma de gas, vapor o nube de polvo.

Zona 20: área en la que una atmósfera explosiva en forma de nube de polvo combustible está permanentemente presente. Zona 21: área en la que es probable la formación de una atmósfera explosiva en forma de nube de polvo combustible.

Zona 22: área en la que no es probable que se produzca una atmósfera explosiva en forma de nube de polvo combustible o, si se produce, sólo persistirá durante un breve período.

La Directiva ATEX contiene directrices y describe los requisitos generales; es aplicable gracias a varias normas técnicas que especifican con más detalle el método y los requisitos básicos para el diseño, la construcción, el ensayo y el marcado de los equipos destinados a ser utilizados en atmósferas potencialmente explosivas.

Las normas técnicas son desarrolladas por el Comité Técnico de la IEC y son: IEC EN 60079** y IEC ISO EN 80079**. IPL aplica las directrices ATEX con referencia a la ISO 8031 (mangueras y accesorios de plástico y goma y determinación de la resistencia eléctrica). Esta norma, ya aplicada por IPL, establece los métodos de prueba para determinar las propiedades eléctricas de las mangueras acopladas y no acopladas. Suministra además una tabla de clasificación de mangueras en función de sus propiedades eléctricas y los límites de resistencia.

- GMP guidelines are not prescriptive instructions on how to manufacture products. They are a series of general principles that must be observed during manufacturing. When a company is setting up its quality program and manufacturing process, there may be many ways it can fulfill GMP requirements. It is the company's responsibility to determine the most effective and efficient quality process. Since November 2010 IPL has decided to adequate its working processes to GMP guidelines as sign of respect towards its customer. The entire production process has been restructured in order to fulfill the above mentioned requirements. Since November 2010 IPL has decided to adequate its working processes to GMP guidelines as sign of respect towards its customer. The entire production process has been restructured in order to fulfill the above mentioned requirements.*



ATEX - DIRECTIVE 2014/34/UE and 99/92/EC on equipment and protective systems intended for use in potentially explosive atmospheres. Directive 2014/34/UE, better known under the acronym ATEX (Atmospheres Explosibles) sets out requirements concerning the use of equipments and devices in potentially explosion hazard areas. Atex Directive came into force on 30 March 2014 and has been compulsory since 20 April 2016 for all EU Member States, replacing the previous directive 94/9/EC; all EU marketed products must comply with Atex certification, independently from manufacturing site and regulations, whereas they are installed in places at risk of explosion. Beside the Directive 2014/34/UE is also applicable Directive 99/92/EC, concerning the requirements in terms of safety in workplace, which is important particularly as regards the operational conditions of equipment and devices. The Directive classifies devices and applicative areas as follows:

-Products of group I (categories M1 and M2) and products of group II (categories 1,2,3)

Zona 0: area where it is permanently present or for long periods or often an explosive atmosphere consisting in a mixture of air and flammable substances in the form of gas, vapor or fog.

Zona 1: area in which during normal activities the formation of an explosive atmosphere consisting in a mixture of air and flammable substances in the form of gas, vapor or fog is likely. Zona 2: area in which during normal activities the formation of an explosive atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapor or mist is not likely and, if it occurs, is only of short duration.

Zona 20: Area in which there is permanently/long periods/often an explosive atmosphere consisting in a cloud of combustible dust.

Zona 21: Area in which during normal activities the formation of an explosive atmosphere consisting in a cloud of combustible powders is probable.

Zona 22: Area where during normal activities the formation of an explosive atmosphere consisting in a cloud of combustible dust is not probable and, if it occurs, is only of short duration. The ATEX directive contains guidelines and describes general requirements, it can be applied thanks to different technical standards that specify in more detail the method and the basic requirements for the design, construction, testing

and marking of devices for use in atmospheres potentially explosive.
IEC technical standards harmonized as EN:
IEC EN 60079 - ** Explosive atmospheres – Part **-
IEC ISO EN 80079-** Explosive atmospheres – Part **-
Ipl applies to Atex guidelines in compliance with ISO 8031 (Rubber and plastic hoses and hoses assemblies - Determination for electrical resistance). This Directive establishes test methods to determine electrical properties on assembled and unassembled hoses. Moreover it provides a hose classification chart according to electrical properties and resistance limits and plastic hoses and hoses assemblies - Determination for electrical resistance). This Directive establishes test methods to determine electrical properties on assembled and unassembled hoses. Moreover it provides a hose classification chart according to electrical properties and resistance limits.

TABLA DE CLASIFICACIÓN ISO 8031, MANGUERAS Y LÍMITES DE RESISTENCIA ELÉCTRICA
ISO 8031 CLASSIFICATION, TERMINOLOGY AND LIMITS OF ELECTRICAL RESISTANCE

| GRADO GRADE | DESCRIPCIÓN DESCRIPTION | MONTAGE ENTRE ACCESSORIES DE AMBOS EXTREMOS DE LA MANGUERA. RESISTANCE R/ASSEMBLY BETWEEN THE FITTINGS AT THE ENDS | CATEGORÍA CATEGORY |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------|
| M | ELECTRICALLY BONDED Al menos dos cables metálicos flexibles de conexión, con o sin espiral metálico. At least two flexible metal cables for connection, with or without a metal spring | $R < 102 \Omega$ | CONDUCTIVO CONDUCTIVE |
| - | CONTINUOUS ELECTRICALLY BONDED Espiral metálica conectada eléctricamente a los accesorios Metallic elic/ elics electrically connected to the fittings | $R < 102 \Omega$ | CONDUCTIVO CONDUCTIVE |
| Ω | CONDUCTIVE Incorpora una o más capas de goma o plástico conductor It incorporates one or more layers of conductive rubber or plastic | $R < 106 \Omega$ | CONDUCTIVO CONDUCTIVE |
| Ω | ANTISTATIC Incorpora una o más capas de goma o plástico antiestático It incorporates one or more layers of antistatic rubber or plastic | $103 \Omega < R < 108 \Omega$ | ANTIESTÁTICO ANTISTATIC |
| - | INSULATING | $R > 108 \Omega$ | AISLANTES INSULATING |
| - | DISCONTINUOUS Puede contener hilos metálicos o espiral de acero, pero no están conectados a accesorios. It may contain wires or metal elics, but not connected to the fittings | $R > 2,5 \times 104 \Omega$ | DISCONTINUO DISCONTINUOUS |

TABLA DE CLASIFICACIÓN DE LOS PLÁSTICOS AUTOEXTINGUIBLES
FLAMMABILITY RATING CHART FOR PLASTIC MATERIALS

| Clase <i>Classification</i> | V0 | V1 | V2 |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----------|
| Tiempo de combustión después de cada aplicación de llama <i>Burning time after each flame application</i> | ≤ 10 sec | ≤ 30 sec | ≤ 30 sec |
| Tiempo total de combustión del lote de muestras <i>Total burning time per batch</i> | ≤ 50 sec | ≤ 250 sec | ≤ 250 sec |
| Combustión en toda la altura del espécimen <i>Burning up to the clamp</i> | No | No | No |
| Combustión e incandescencia después de la segunda aplicación de la llama <i>Burning and glowing time after second flame application</i> | ≤ 30 sec | ≤ 60 sec | ≤ 60 sec |
| Ignición de tejido de algodón <i>Ignition of cotton wadding</i> | No | No | Si Yes |



UL 94 es la norma que define los ensayos y las clases de inflamabilidad de los plásticos, concretamente los utilizados en la fabricación de mangueras. La norma clasifica los plásticos en función de su reacción al fuego, desde los menos resistentes (V2) hasta los más resistentes a las llamas (V0).

El ensayo para establecer la clase de inflamabilidad consiste en colocar la espécimen en posición vertical y exponerla a la llama de un mechero Bunsen (h = 20 mm) durante dos periodos de 10 segundos (el segundo periodo se aplica después de extinguir la llama).

Los criterios para la atribución de la clase son respectivamente: el tiempo de combustión, el tiempo total de combustión y el goteo de las partículas quemadas de las probetas de hasta 13 mm de espesor (10 probetas de 125 mm x 13 mm de tamaño).

La norma alemana DIN 4102 es una de las más conocidas y reconocidas en Europa. Se aplica a todos los materiales de construcción, incluidos los plásticos. La prueba para determinar el grado de resistencia al fuego se realiza colocando una muestra colgada en una cabina de pruebas, a la que se aplica una llama de quemador durante 15 segundos. De este modo, se mide el tiempo que se tarda en llegar a un punto indicado. La clasificación del material examinado puede tener las siguientes clases:

- B1 schwerentflammbare Stoffe: material con propagación limitada de la llama. Los tubos de la sección autoextinguible, Vulcano® 09 AF y Vulcano® AF PLUS, cumplen los requisitos de la clase B1;
- B2 normalentflammbare Stoffe: material con una propensión normal a la propagación de la llama;
- B3 leichtentflammbare Stoffe: materiale con una forte attitudine alla propagazione della fiamma.

UL 94 is the standard that defines tests and flammability classes for plastic materials, specifically in our case, for those used in the production of flexible hoses. The standard classifies plastics according to their reaction to fire, from least resistant (V2) to most flame resistant (V0). In this test, the specimen is placed vertically and exposed to a Bunsen burner flame (h = 20) for two periods of 10 seconds (the second period is applied after extinction). The assessment criteria are: burning time, total burning time and the dropping of burning particles of specimens (10 test specimens 125 mm x 13 mm) up to 13 mm thick.



The German DIN 4102 standard is one of the best known and most recognised fire behaviour regulations in Europe. It is applied to all building materials, including plastics. The test to determine the degree of fire resistance is carried out by placing a sample hanging in a test cabinet, to which a burner flame is applied for 15 seconds. This measures the time taken to reach an indicated point. The rating of the tested material can have the following classes:

- B1 schwerentflammbare Stoffe: Material with limited flame spread. The hoses in the flame-retardant section, Vulcano® 09 AF and Vulcano® AF PLUS, meet the requirements of Class B1;
- B2 normalentflammbare Stoffe: material with a normal aptitude for flame propagation;
- B3 leichtentflammbare Stoffe: material with a high flame-spreading capacity.

TABLA DE RESISTÉNCIAS QUÍMICAS CHEMICAL RESISTANCE CHART

| LEYENDA / LEGENDA | |
|-------------------|----------------------------|
| A | Excelente / Excellent |
| B | Bueno / Good |
| C | Aceptable / Suitable |
| X | No resistente / Do not use |
| - | Sin datos / No data |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|------------------------------------------|-----------|------|-----------|------|----------|------|------|------|---------|------|---------|------|------|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C |
| acetaldehyde, aqueous | B | X | B | X | B | X | A | B | B | X | B | B | |
| acetamide | X | | X | | X | | A | | B | | B | | |
| acetic acid 10% | X | | B | C | A | C | A | | B | B | C | X | C |
| acetic acid 100% | X | | X | | X | | X | | B | C | X | | |
| acetic acid 3% | C | X | A | B | A | B | A | | A | A | X | | B |
| acetic acid ethyl ester (ethyl acetates) | X | | X | | X | | B | X | X | | C | X | X |
| acetic anhydride | X | | X | | X | | A | B | A | A | A | B | |
| acetone | X | | X | | X | | B | C | A | B | X | | X |
| acetylacetone | X | | X | | X | | A | | | | X | | |
| acetylene | A | A | A | A | B | C | A | | A | B | A | X | |
| acids, generally (see exact media) | C | | B | C | A | B | B | C | A | B | C | X | |
| acrylic acid ethylester | X | | X | | X | | C | X | C | X | C | X | |
| acrylic esters (ethyl acrylate) | X | | X | | X | | A | | A | | B | | |
| acrylonitrile | X | | X | | X | | C | X | B | C | C | | |
| adipic acid, aqueous | C | | B | C | A | B | A | A | A | A | X | | |
| aethylenediamine | A | | A | | A | | A | | B | | C | X | |
| air, containing oil-oil | A | | X | | X | | X | | B | | C | | |
| air, dry | A | A | A | A | A | A | A | A | A | A | A | A | |
| alcohols, generally (see exact media) | B | X | B | X | B | X | A | B | A | A | B | X | |
| aliphatics, generally (see exact media) | A | B | A | B | C | X | C | X | B | X | X | | X |
| alkalis, generally (see exact media) | B | C | A | B | A | B | B | B | A | A | B | X | |
| allyl alcohol | C | X | C | X | C | X | A | A | A | C | X | | |
| allyl chloride | X | | X | | X | | B | X | A | X | A | | |
| alum, aqueous | A | B | A | A | A | B | A | A | A | A | A | | B |
| aluminium acetates | C | | B | | A | A | A | | A | | X | | |
| aluminium chloride, 10% | B | C | A | B | A | A | A | | A | | X | X | B |
| aluminium fluoride | C | X | C | X | A | | A | | A | | A | C | |
| aluminium hydroxide | C | X | B | X | A | | | | A | | A | A | |
| aluminium nitrate | C | | B | | A | | A | | A | | B | | |
| aluminium phosphates | B | | A | | A | | A | | A | | A | | |
| aluminium sulfate, aqueous | B | X | A | C | A | A | A | B | A | A | A | | B |
| aminoethanols | X | | X | | X | | A | | C | | X | | |
| ammonia, aqueous 100% | X | | X | | A | A | A | A | C | | A | C | |
| ammonia, aqueous 3% (liquid ammonia) | C | | A | B | A | A | A | A | C | X | A | A | |
| ammonia, gaseous | B | X | A | C | A | A | A | B | A | A | A | A | B |
| ammonium acetate, aqueous | X | | C | X | A | A | A | A | A | | C | X | B |
| ammonium carbonate, aqueous | X | | C | X | A | B | A | A | A | A | B | X | B |
| ammonium chloride, aqueous 3% (salmiac) | A | B | A | B | A | A | A | A | A | A | A | | B |
| ammonium diphosphat, aqueous | C | | A | | A | | A | | A | | A | | |
| ammonium fluorides, aqueous | X | | X | | A | C | A | A | A | A | | | |
| ammonium metaphosphat, aqueous | A | | A | | A | | A | | A | | A | | |
| ammonium nitrate, aqueous | C | X | B | X | A | A | A | A | A | A | A | | B |
| ammonium phosphates, aqueous | B | X | B | X | A | A | A | A | A | A | A | | B |
| ammonium sulfate | A | X | A | C | A | A | A | A | A | | A | | B |
| ammonium thiocyanate | C | | B | | A | | A | | | | A | A | |
| amyl alcohols-pentanols | C | | C | | A | | A | | A | | C | | X |
| amyl chlorides | X | | X | | X | | B | | X | | X | | X |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|-------------------------------------------------|-----------|------|-----------|------|----------|------|------|------|---------|------|---------|------|------|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C |
| aniline | X | | X | | X | | A | | B | C | C | B | |
| aniline hydrochloride | X | | X | | B | X | | | X | | X | | |
| anole-cyclohexanol (see cyclohexanol) | C | | X | | X | | B | | A | B | B | C | |
| anone-cyclohexanone (see cyclohexanone) | C | | X | | X | | B | C | X | | X | | |
| anthraquinonesulfonic acid, aqueous | X | | X | | A | | A | | A | | X | | |
| antifreezes (see exact media) | | | | | | | | | | | | | |
| antimony chlorides, free of water | X | | X | | A | A | A | A | A | B | C | X | |
| antimony-III chlorides, aqueous | C | X | B | X | A | A | A | A | A | A | B | X | |
| aqua fortis (see nitric acid) | X | | X | | B | C | A | B | C | | X | | |
| aqua regia (nitrohydrochloric) | X | | X | | X | | X | | C | | C | | B |
| argon | A | | A | | A | | A | | A | | A | | |
| aromatics, generally (see exact media) | X | | X | | X | | C | X | C | X | X | | X |
| arsenic acid, aqueous | C | X | C | X | A | B | A | A | A | A | B | X | B |
| asphalt | B | X | B | X | B | C | B | X | C | X | C | X | |
| ASTM-oils (see oil) | | | | | | | | | | | | | |
| ATE-brake fluids - brake fluids | X | | X | | X | | C | X | C | X | X | | X |
| barium chloride, aqueous | A | C | A | C | A | A | A | A | A | A | A | | |
| barium hydroxide, aqueous | C | X | B | C | A | A | A | A | A | A | A | | |
| barium sulfate | A | | A | | A | | B | | A | | A | | |
| barium sulfide | C | X | B | C | A | | A | | A | | A | | |
| basic aluminium acetate (seealuminium acetates) | | | | | | | | | | | | | |
| battery acid - sulfuric acid | X | | X | | C | X | B | C | B | C | X | | A |
| beef tallow (beef fat)-(see oil, animal) | | | | | | | | | | | | | |
| beer | A | | A | | A | A | A | | A | | A | | |
| benzaldehyde | X | | X | | X | | A | | X | | X | X | X |
| benzene | X | | X | | X | | X | | X | | X | | |
| benzoic acid, aqueous | C | X | B | C | A | B | A | A | A | A | C | X | |
| benzyl alcohol | X | | X | | C | X | A | C | A | | A | | |
| benzyl benzoate | X | | X | | | | B | | A | | A | | |
| benzylchloride | X | | X | | A | | X | | X | | B | X | X |
| bismuth carbonates | A | | A | | A | | A | | | | A | | |
| bitumen (asphalt) | B | X | B | X | B | C | B | X | C | X | C | X | |
| black liquor (cellulose-/pulp-production) | X | | X | | | | | | X | A | X | | |
| bone oils | A | | A | | B | | X | | X | | B | C | |
| borax, aqueous | B | C | A | A | A | | A | | A | B | A | | |
| boric acid, aqueous | B | C | A | B | A | A | A | A | A | A | A | | |
| brake fluid, ATE- | X | X | X | X | A | | A | A | A | A | B | | |
| brake fluid, ATS- | X | X | X | X | A | | A | | A | | B | | |
| brake fluid, out of glycoethers | X | | X | | | | A | | | | | | |
| bromine | X | | X | | X | X | X | | C | X | X | X | B |
| bromine water | X | | X | | X | | C | | B | | X | | |
| bromobenzene | X | | X | | X | | C | X | | X | X | | |
| bromochloromethane | X | | X | | X | | C | X | X | | X | | |
| butadiene | B | C | A | B | A | A | C | X | A | A | C | X | |
| butane, gaseous | A | | A | | C | X | C | X | A | | X | | X |
| butane, liquid | A | | A | | B | | B | | A | | C | | X |
| butene, aqueous | A | | A | | B | | X | | A | | C | | |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|-----------------------------------------------------|-----------|------|-----------|------|----------|------|------|------|---------|------|---------|------|-----|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | |
| | butter | B | A | B | X | A | C | | | | | | |
| butter milk | B | A | B | A | B | A | | | | | | | |
| butyl acetates | X | X | X | B | X | X | C | X | | | | | X |
| butyl benzoate | A | A | | B | X | X | | | | | | | |
| butyl carbitol | X | X | | B | B | B | | | | | | | |
| butyl oleate | X | X | | | X | A | | | | | | | |
| butyl phenol | X | X | C | X | X | X | | | | | | | |
| butyl stearate | A | A | A | B | B | X | | | | | | | |
| butylalcohol | B | C | B | C | B | C | | | A | A | B | B | |
| butylamine | B | B | X | A | X | B | | | | | | | |
| butylether | X | C | A | B | | | | | | | C | X | |
| butylglycol, aqueous | C | C | X | B | B | | | | | | C | C | |
| butynediol | A | A | | | B | | | | | | | | |
| butyraldehyde | X | X | | A | C | C | X | | | | | | |
| butyric acid | C | X | B | C | A | C | A | | C | C | X | B | |
| calcium acetate | B | B | A | A | A | B | C | X | | | | | |
| calcium bisulfate, aqueous | C | X | B | C | A | A | A | A | A | A | X | | |
| calcium bisulphite, aqueous | C | C | A | A | A | A | B | X | | | | | |
| calcium carbonate | A | A | A | A | X | A | A | | | | | | |
| calcium chloride, aqueous 10% | B | X | A | C | A | A | A | A | A | A | | | |
| calcium hydroxide, aqueous | A | C | A | B | A | A | A | B | | | | | |
| calcium hypochlorite | X | X | A | A | A-B | A | C | X | | | | | |
| calcium nitrate | A | A | A | A | A | A | A | A | | | | | |
| calcium oxide (lime) | A | A | A | | A | B | B | | | | | | B |
| calcium phosphates, aqueous | B | B | | A | A | A | | | | | | | |
| calcium sulfate | A | A | A | A | A | A | A | | | | | | |
| calcium sulfide | A | A | A | A | A | A | A | | | | | | |
| camphor | X | X | | | C | X | | | | | | | |
| carbitol | X | X | C | A | B | B | | | | | | | |
| carbon dioxide, dry | A | A | A | A | A | A | A | A | A | A | A | B | |
| carbon dioxide, wet (carbonic acid) | B | A | A | A | A | A | A | A | A | A | A | | |
| carbon disulfite | X | X | X | X | X | X | X | | | | | | |
| carbon oxide (carbon monoxide) | A | A | A | A | A | A | A | A | A | A | | | |
| caro's acid | | | A | | B | | | | | | | | |
| castor oil | A | A | B | C | B | A | A | A | | | | | |
| caustic potash (see potash lye) | | | | | | | | | | | | | |
| celluloseacetate | A | A | | A | | A | | | | | | | |
| chloral hydrate | X | X | X | | B | | | | | | | | |
| chloramine, aqueous | B | B | | A | A | | | | | | | | |
| chloric acid, aqueous | X | C | X | A | B | X | A | C | X | | | | |
| chloride of lime (bleach) | X | X | B | C | A | A | A | X | X | | | | |
| chlorinated water | X | C | B | C | C | X | B | C | | | | | |
| chlorine oxides | X | X | B | | A | C | | | | | | | |
| chlorine, aqueous | X | X | X | X | C | X | X | B | B | | | | |
| chlorine, gaseous dry | X | X | X | X | C | X | B | | | | | | |
| chloroacetic acid, mono | X | X | A | C | A | B | X | B | | | | | |
| chlorobenzene | X | X | X | X | X | X | X | X | | | | | |
| chloroform (trichloromethanes) (see chloromethanes) | | | | | | | | | | | | | |
| chloromethanes (chloroform, dichloromethane) | X | X | X | X | X | X | X | | | | | | |
| chloroprene (chloro butadiene) | X | X | X | X | B | X | | | | | | | |
| chlorosulfuric acid | X | X | X | X | X | X | X | B | | | | | |
| chromic acid 10% | X | C | X | A | B | C | A | B | B | | | | |
| chromic acid 17% | X | X | A | C | X | X | A | B | | | | | |
| chromic acid 50% | X | X | X | X | X | X | B | | | | | | |
| citric acid, aqueous | B | X | A | C | A | A | A | B | B | X | | | |
| coal tar | C | C | B | B | C | A | | | | | | | |
| coconut oil | A | A | A | A | B | C | C | A | A | | | | |
| coconuts fatty alcohol | X | X | A | B | A | X | A | A | | | | | |
| copper acetates, aqueous | B | B | A | A | B | C | C | | | | | | |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|----------------------------------------------|--------------------------|------|-----------|------|----------|------|------|------|---------|------|---------|------|-----|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | |
| | copper chloride, aqueous | A | A | A | A | A | A | A | A | A | A | A | |
| copper cyanide | C | A | A | A | A | A | A | A | A | A | A | A | |
| copper fluoride, aqueous | X | X | | | A | A | A | A | A | A | A | A | |
| copper hydroxide | A | A | | | A | | | | | | | | |
| copper nitrate, aqueous | C | X | C | X | C | A | A | A | A | A | A | A | |
| copper sulfate, aqueous | B | B | B | C | A | A | A | A | A | A | A | A | |
| cottonseed oil | A | A | A | A | | | | | C | A | | | |
| creosote (coal tar) | X | X | X | B | C | A | B | | | | | | |
| cresols | X | X | X | C | X | C | A | B | | | | | X |
| crotonaldehyde (butenal) | C | X | B | C | X | A | A | A | A | A | A | | |
| cyclohexane | A | B | A | B | X | B | X | X | A | A | X | | X |
| cyclohexanol | C | X | B | X | X | A | A | B | X | X | | | X |
| cyclohexanone | X | X | X | B | X | X | X | X | X | X | | | X |
| cyclohexylamine | X | X | A | X | C | X | X | | | | | | |
| DEKALIN | X | X | A | X | X | X | A | | | | | | |
| detergents, generally (see exact media) | B | C | A | B | A | C | A | A | A | A | A | | |
| developing dyes, generally (see exact media) | B | B | A | A | A | A | A | A | A | A | | | |
| dextrin, aqueous | | | A | A | A | A | A | A | A | A | | | |
| diacetone alcohol | B | X | B | X | X | C | C | X | B | | | | B |
| dibenzylether | X | X | X | C | X | A | | | | | | | |
| dibutyl ether | X | X | B | X | C | X | | | | | | | |
| dibutylamine | X | X | | B | X | X | | | | | | | |
| dichloroacetic acid | X | X | | B | C | X | C | X | | | | | |
| dichlorobenzenes | X | X | X | C | X | X | B | | | | | | |
| dichloroethanes | X | X | X | C | X | X | B | X | | | | | |
| dichloroethylenes | X | X | X | X | X | X | B | | | | | | |
| diethyl ether | A | A | X | C | C | X | X | | | | | | |
| diethylamine | X | X | X | A | X | X | | | | | | | |
| diethylbenzene | X | X | A | X | X | X | | | | | | | |
| diethylene glycol | C | C | B | A | A | A | A | A | | | | | |
| diglycolic acid, aqueous | A | A | A | C | A | A | B | A | | | | | |
| dimethyl ether | C | C | X | A | X | X | | | | | | | |
| dimethylamine | X | X | X | C | X | X | X | | | | | | |
| dimethylanilin (xylydines) | B | B | X | B | X | B | | | | | | | |
| dimethylformamide | X | X | X | C | X | C | X | X | | | | | X |
| imethylheptanon | X | X | X | C | X | X | | | | | | | |
| dioxane | X | X | X | B | C | X | X | | | | | | |
| diphenyl | X | X | X | C | X | A | | | | | | | |
| diphenyl chloride | X | X | X | X | X | A | | | | | | | |
| diphenyl ether | X | X | X | B | C | X | B | | | | | | |
| dipropylene glycol | | | | A | A | A | | | | | | | |
| dodecanol (lauryl alcohol, 1-dodecanol) | A | A | A | A | A | A | A | A | | | | | |
| epichlorhydrin | X | X | X | A | X | X | | | | | | | |
| essential oil of, generally | B | B | X | C | X | A | | | | | | | |
| ethane | A | A | A | A | B | A | | | | | | | |
| ethanol 100% | B | X | A | C | C | X | B | X | A | A | A | B | |
| ethanol 50% | B | X | A | C | B | X | A | B | A | B | A | A | |
| ethanol, 10% (ethyl alcohol, spirit) | B | C | A | B | A | A | A | A | A | A | A | A | |
| ethylchloride | X | X | X | C | X | C | A | A | B | | | | |
| ethylbenzene | X | X | X | X | X | X | X | | | | | | |
| ethylbromide | B | B | X | B | C | X | B | X | | | | | X |
| ethylene | A | A | A | B | X | B | | | | | | | |
| ethylene chloride dichloroethanes | X | X | X | C | X | B | | | | | | | |
| ethylene chlorohydrin | X | X | X | B | B | X | B | | | | | | |
| ethylene glycol (glycol) | B | X | A | C | B | A | A | A | A | A | A | A | B |
| ethylene oxide, gaseous | A | A | A | A | A | A | A | A | A | A | A | B | |
| fatty acids with 1-7 C-atoms, generally | C | X | B | C | A | B | C | C | C | C | B | | |
| fatty acids with >7 C-atoms, generally | B | C | A | B | A | B | C | C | C | C | B | | |
| fatty alcohols, generally (see exact media) | C | B | B | C | B | B | | | | | | | |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|------------------------------------------------|------------------------------|------|-----------|------|----------|------|------|------|---------|------|---------|------|------|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C |
| | fermentation gas (marsh gas) | A | | A | | A | | A | A | A | A | | |
| fertilizing salt, aqueous | X | | C | X | A | A | A | A | A | A | | | |
| fish liver oil | A | | A | | X | | A | | B | | B | | |
| fish needle oil | B | | B | | X | | | | X | | C | | |
| fluorobenzene | X | | X | | | | X | | X | | X | | |
| fluoride of boron acid 65% | X | | X | | A | | | | B | | X | | |
| fluorine, gaseous | X | | X | | C | | X | | X | | C | | |
| fluorosilicic acid, aqueous | X | | X | | A | A | A | | A | B | B | C | A |
| formaldehyde, aqueous | B | X | B | X | B | C | A | A | A | | A | B | A |
| formamide | X | | X | | X | | A | A | A | A | | | |
| formic acid 10% | C | X | B | X | A | | A | C | A | B | B | X | B |
| formic acid 100% | X | | X | | B | X | B | X | C | X | X | | |
| formic acid 3% | B | X | A | B | A | A | A | B | A | A | A | C | B |
| freon R 11 (frigen) | C | | C | | | | | | A | | X | | X |
| freon R 113 (frigen) | C | | C | | | | | | A | | X | | |
| freon R 114 (frigen) | A | | A | | A | | | | A | | X | | |
| freon R 12 (frigen) | C | | C | | B | | | | A | | X | | |
| freon R 22 (frigen) | C | | C | | | | X | | X | | X | | |
| fruit juice, fruit wine | B | C | B | C | A | | A | | A | A | A | A | |
| furan | X | | X | | A | | | | X | | A | A | |
| furfural | X | | X | | X | | X | | C | | C | | |
| gallic acid | X | | C | X | A | | B | | A | | B | | |
| gasoline, ASTM-Fuel A | A | | A | | X | X | X | | A | | C | | |
| gasoline, ASTM-Fuel B | C | | X | | X | X | X | | X | | C | | |
| gasoline, ASTM-Fuel C | X | | X | | X | X | X | | X | | X | | |
| gasoline, diesel/diesel oil/ heating oil | C | | X | | X | X | X | | X | | C | | |
| gasoline, FAM-Fuel DIN 51604-A | A | | A | | X | X | X | | | | | | |
| gasoline, FAM-Fuel DIN 51604-B | B | | B | | X | X | X | | | | | | |
| gasoline, FAM-Fuel DIN 51604-C | X | | X | | X | X | X | | | | | | |
| gasoline, flight- (kerosene) | X | | C | | X | X | X | | X | | C | | |
| gasoline, generally (see exact media) | X | | X | | X | X | X | | X | | C | X | X |
| gasoline, white spirits | X | X | X | X | X | X | X | | X | | X | | |
| gasoline-benzene (50/50%) | X | | X | | X | X | X | | X | | X | | |
| gasoline-benzene (60/40%) | X | | X | | X | X | X | | X | | X | | |
| gasoline-benzene (70/30%) | X | | X | | X | X | X | | X | | C | | |
| gasoline-benzene (80/20%) | X | | X | | X | X | X | | X | | C | | |
| gasoline-benzene-ethanol (50/30/20%) | X | | X | | X | X | X | | X | | X | | |
| gelatin | B | C | A | B | X | | A | A | A | | A | | |
| glucose (dextrose) | B | C | A | B | A | B | A | A | A | | A | A | |
| glue (e.g. for wood) | B | | B | | A | | A | | A | | A | | |
| glycerol | A | A | A | A | A | C | A | A | A | A | A | A | B |
| glycine, aqueous 10% | X | | X | | A | | A | | B | C | B | C | |
| glycol- (see ethylene glycol) | | | | | | | | | | | | | |
| glycolic acid, 30% | X | | C | X | A | A | A | | A | A | A | | |
| helium | A | A | A | A | A | A | A | A | A | A | A | A | A |
| heptane | A | A | A | A | X | | A | | B | C | X | | |
| hexanal | X | | X | | | | | | X | | X | | |
| hexane | A | B | A | B | X | | X | | B | | X | X | |
| hexanetriol | X | | X | | A | | A | | A | | A | | |
| hexanol | X | | X | | X | | X | | C | | X | | |
| hexene | A | | A | | | | | | C | | X | | |
| hydraulic fluid, hydraulic oils DIN 51 524 | A | A | A | A | C | | A | | X | | C | | |
| hydraulic fluid, oil-in-water- emulsion HFA | A | A | A | A | | | X | | C | | X | | |
| hydraulic fluid, phosphoric esters HFD | X | | X | | X | | | | X | | X | | |
| hydraulic fluid, polyglycol-water HFC | B | X | A | C | | | | | A | | B | | |
| hydraulic fluid, water-oil-emulsion HFB | X | | X | | | | | | B | | | | |
| hydrazine | X | | X | | A | B | A | | C | | X | | |
| hydrazine hydrate | C | X | B | C | A | | A | | A | | C | | |
| hydrobromic acid 50% | X | | C | X | A | A | A | A | A | A | A | B | B |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|-----------------------------------------|-----------------------|------|-----------|------|----------|------|------|------|---------|------|---------|------|------|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C |
| | hydrochloric acid 10% | X | | B | C | A | B | A | B | A | A | B | C |
| hydrochloric acid 3% | C | X | A | B | A | A | A | A | A | A | A | B | B |
| hydrochloric acid 40% | X | | X | | B | C | B | C | B | C | X | | A |
| hydrofluoric acid 10% | C | X | B | X | A | A | A | | A | A | B | C | |
| hydrofluoric acid 40% | X | | C | X | A | B | B | | A | A | B | C | |
| hydrofluoric acid 70% | X | | X | | C | X | C | | A | A | X | | A |
| hydrogen | A | | A | | A | | A | A | A | A | A | A | |
| hydrogen cyanide | C | | B | | A | C | | | B | X | C | X | |
| hydrogen peroxide 3% | A | B | | B | A | A | A | B | A | A | A | | A |
| hydrogen peroxide 30% | B | X | B | X | B | C | B | C | B | C | A | B | X |
| hydrogen sulfide, dry or wet | B | X | B | X | X | | A | | A | A | B | C | |
| hydrogen sulfites | X | | C | X | A | | B | | A | | C | | |
| hydroquinon, aqueous | X | | X | | A | C | C | | A | | C | | |
| hdrosilokfluoric acid, aqueous | X | | X | | A | | | | B | | X | | |
| hydroxylamine sulfate | X | | X | | A | | A | | A | | A | | |
| ink, for writing | A | | A | | A | A | A | | A | | A | | |
| iron sulfates, aqueous | B | C | A | B | A | | A | | A | | A | | |
| iron(III)-chloride, aqueous 10% | B | C | A | B | A | | A | B | A | A | A | | |
| isobutylalcohol | X | | X | | A | | A | | A | | A | | |
| isooctane | A | B | A | C | X | | X | | A | | A | | |
| isooctanol | X | | X | | X | | B | | B | | C | | |
| isophorone | C | | C | | X | | C | | X | | X | | |
| isopropanol (isopropyl alcohol) | B | X | A | X | C | X | A | | X | | X | | |
| isopropylacetate | C | X | B | X | C | X | A | | X | | X | | |
| isopropylbenzene (cumene) | X | | C | X | X | | X | | X | | X | | |
| isopropylchloride | X | | X | | | | X | | X | | X | | |
| isopropylether | C | X | B | X | C | | X | | B | C | X | | |
| ketones, generally (see exact media) | X | | X | | X | | B | C | X | | B | C | X |
| lactic acid, aqueous 3% | B | C | A | B | A | B | A | A | A | A | A | | A |
| lactic acid, aqueous 50% | X | | X | | X | | B | C | X | | B | C | |
| lactic acid, aqueous 10% | C | X | B | C | B | C | A | A | A | A | B | B | |
| lanolin (wool fat) | A | A | A | A | B | X | X | | C | | C | | |
| laughing gas | A | | A | | A | | A | | A | | A | | |
| lavender oil | B | | X | | | | X | | X | | X | | |
| lead acetates, aqueous | A | A | A | A | A | A | A | | A | A | A | | B |
| lead arsenate, aqueous | C | | A | | A | | A | | | | A | | |
| lead nitrate, aqueous | B | | A | | A | | A | | A | | B | | |
| lead sulfate | A | | A | | A | | A | | A | | B | | |
| lemon juice | B | | A | | A | | | | A | | B | | |
| lime - calcium oxide | | | | | | | | | | | | | |
| limonene (dipentene) | B | | B | | | | X | | X | | B | | |
| linoleic acid | B | | A | | | | X | | X | | C | | |
| linseed oil (flaxseed oil) | B | C | B | C | B | X | B | | A | | A | | X |
| liquide manure | X | | A | | A | | | | A | | A | | |
| lithium bromide | A | | A | | | | A | | A | | B | | |
| lithium chloride | A | | A | | A | | A | | A | | A | | |
| magnesium chloride, aqueous 10% | A | X | A | C | A | B | A | A | A | A | A | | A |
| magnesium hydroxide, aqueous | A | | A | | A | | A | | A | | A | | A |
| magnesium silikates (talco) | A | | A | | A | | A | | A | | A | | |
| magnesium sulfate, aqueous | A | B | | B | A | A | A | A | A | A | A | C | |
| magnesium sulfites, aqueous | C | | A | | A | | A | | A | | A | | |
| maize germ oil | B | C | B | C | B | C | | | A | | B | | |
| maleic acid, aqueous | C | X | B | C | A | C | A | B | A | A | B | C | |
| malic acid, aqueous (apple juice) | X | | C | X | A | | A | | A | | A | | |
| margarine | A | A | A | A | A | B | X | | B | C | C | X | |
| marsh | A | | A | | A | | A | | A | | A | | |
| menthol | C | X | C | X | | | A | B | A | A | X | | |
| mercury | A | A | A | A | A | A | A | A | A | A | A | | |
| mercury nitrates | B | X | B | C | A | | | | | | A | | |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|-----------------------------------------------------|-----------|------|-----------|------|----------|------|------|------|---------|------|---------|------|-----|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | |
| mercury salts, aqueous generally | X | | X | | B | | A | | A | | A | | |
| mercury(II)-chloride | B | X | B | C | C | X | A | | A | | A | | |
| mesityl oxide | X | | X | | X | | C | | X | | X | | |
| methane | A | | A | | A | | X | | B | | C | X | |
| methanol (methyl alcohol) | B | X | B | C | C | X | A | B | A | | B | | |
| methyl acetate | X | | X | | C | X | A | B | X | | X | | |
| methyl acrylate | X | | X | | X | | | | X | | X | | |
| methyl bromide | X | | X | | X | | X | | X | | X | | |
| methyl chloride (see chloromethanes) | X | | X | | X | | B | | X | | X | X | |
| methyl chloroform trichloroethanes | X | | X | | C | | B | | X | | X | | |
| methyl ethyl ketone (MEK) | X | | X | | X | | C | X | C | X | X | | |
| methyl glycol - ethylene glycol | X | | X | | X | | A | | C | | X | | |
| methyl isobutyl ketone | X | | X | | X | | C | X | X | | X | | |
| methyl pyrrolidone (NMP) | X | | X | | | | | | | | | | |
| methylamine, aqueous | X | | X | | C | X | A | | A | | X | | |
| microbes (microorganisms) | X | X | A | A | A | A | B | C | A | A | C | C | |
| mixed acid: sulfuric acid + nitric acid + water | A | | A | | A | | A | | A | | A | | |
| mixed acid: sulfuric acid + phosphoric acid + water | X | | X | | B | | B | X | A | | X | | |
| molasses | X | C | B | X | A | B | A | B | A | A | A | | |
| morpholine | X | | X | | X | | A | B | A | A | A | | |
| must (fruit wine) | A | | A | | A | | A | B | A | B | X | | |
| mustard | A | | A | | A | B | | | A | | | | |
| myristyl alcohol (tetradecanol) | A | | A | | A | | B | | A | | B | | |
| naphta | B | | B | | X | | C | X | X | | X | | |
| naphthalene | C | X | C | X | X | | X | | C | X | X | | |
| natural gas, dry | A | | A | | A | | C | X | C | X | C | X | |
| natural gas, wet with 1-7 C-atoms | B | | B | | X | | X | | B | C | C | | |
| natural gas, wet with >7 C-atoms | A | | A | | C | X | B | C | B | C | C | | |
| nickel acetate | X | | X | | | | B | | X | | C | | |
| nickel chloride | B | X | A | C | A | | A | | X | | C | C | |
| nickel sulfate | B | C | A | B | A | A | A | A | A | A | A | B | |
| nitric acid, 10% | X | | X | | B | C | A | B | A | B | C | X | |
| nitric acid, 100% | X | | X | | X | | X | | C | X | X | X | |
| nitric acid, 25% | X | | X | | C | X | B | C | B | C | C | C | |
| nitric acid, 50% | X | | X | | X | | C | X | B | X | X | | |
| nitrioltriethanol | X | | X | | X | | | | B | | A | | |
| nitrobenzene | X | | X | | X | | X | | X | | X | | |
| nitrogen | A | | A | | A | | A | | A | | A | | |
| nitrogen oxides (nitrous fumes) | X | | X | | X | | X | | C | | X | | |
| nitroglycerin | X | | X | | A | C | X | | A | | X | | |
| nitromethane | X | | X | | B | | C | | C | X | X | | |
| nitropropanes | X | | X | | | | C | | C | X | X | | |
| nitrotoluenes | X | | X | | X | | X | | X | | X | | |
| nonyl alcohol (nonanol) | X | | X | | | | B | | B | | B | | |
| octane | A | | A | | X | | X | | X | | X | | |
| octanols (octyl alcohol) | X | | X | | X | | A | | A | | B | | |
| oil, animal | A | A | A | A | B | C | C | X | B | C | C | X | |
| oil, ASTM-oil nr. 1 | A | A | A | A | C | X | X | | B | C | C | X | |
| oil, ASTM-oil nr. 2 | A | A | A | A | C | X | X | | B | C | B | B | |
| oil, ASTM-oil nr. 3 | A | C | C | X | C | X | C | X | B | C | B | B | |
| oil, ATF- | A | A | A | A | | | C | X | C | X | C | X | |
| oil, hydraulic - hydraulic fluid | A | A | A | A | B | X | C | C | B | C | B | C | |
| oil, mineral | A | A | A | A | B | C | B | C | B | C | B | C | |
| oil, vegetable | B | C | A | B | B | C | B | | C | | C | | A |
| oleic acid | X | | X | | X | | B | | X | | X | X | A |
| oleum | A | A | A | A | | C | B | C | B | C | B | C | |
| olive oil | C | X | B | C | C | C | X | X | A | B | B | C | A |
| ozone | C | | C | | C | | C | | A | | B | | |
| palm oil | B | | B | | C | | B | | C | | B | | B |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|-----------------------------------------------|-----------|------|-----------|------|----------|------|------|------|---------|------|---------|------|-----|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | |
| palmitic acid | A | | A | | C | | C | X | C | X | B | B | B |
| para formaldehyde | B | | A | | | | A | | | | A | A | |
| paraffin (paraffin oil) | A | | A | | B | X | X | | C | X | B | | |
| pectins | A | | A | | A | A | A | | A | | A | | |
| pentachlorophenol | X | | X | | | | B | | | | C | | |
| pentanes | A | | A | | A | | C | | X | | X | | |
| pentanols (amyl alcohols) | X | | X | | X | | A | | X | | X | | |
| pentyl acetates | X | | X | | X | | C | X | X | | X | | |
| perchloric acid, aqueous | X | | X | | B | C | B | X | A | A | X | X | |
| petroleum | C | | X | | X | | X | | C | X | C | X | |
| petroleum ether | C | | X | | X | | X | | X | | X | X | |
| pheol | X | | X | | X | | X | | X | | B | C | |
| phenylhydrazine | X | | X | | X | | C | X | C | X | X | | |
| phosgene | X | | X | | X | | X | | B | C | X | | |
| phosphoric acid 3% | B | C | A | B | A | A | A | A | A | A | B | C | |
| phosphoric acid 50% | X | | X | | A | B | A | B | A | A | C | X | |
| phosphorus trichloride oxide | X | | X | | X | | B | C | A | A | C | X | |
| photo developer, generally (see exact media) | X | | X | | B | | A | | A | | B | | |
| photo emulsion, generally (see exact media) | X | | X | | B | | A | | A | | B | | |
| photo fixing, generally (see exact media) | X | | X | | A | | A | | A | | B | | |
| phthalic ester (phthalates) | X | | C | | X | B | B | C | A | B | X | | |
| picric acid | C | X | B | C | A | | A | | A | | B | C | |
| polychlorinated biphenyls | B | | B | | C | | X | | X | | X | | |
| potash lye 10% | B | C | A | B | A | B | A | B | A | A | B | C | |
| potash lye 50% | X | | C | X | B | C | B | C | A | A | C | X | |
| potassium acetate, aqueous | C | X | C | X | A | | A | | A | | X | | |
| potassium borate, aqueous | C | X | B | X | A | | A | | A | | A | A | |
| potassium bromate 10% | X | | X | | A | | A | A | A | A | B | C | |
| potassium bromide, aqueous | C | X | B | X | A | | A | A | A | A | A | A | |
| potassium carbonate, aqueous (potash) | C | X | C | X | A | | A | | A | | A | A | |
| potassium chlorate, aqueous | C | X | A | C | A | A | A | A | A | A | B | C | |
| potassium chloride, aqueous | B | X | A | C | A | A | A | A | A | A | B | C | |
| potassium chromate, aqueous 40% | X | | X | | A | C | A | | A | | B | C | |
| potassium cyanide, aqueous | C | X | C | X | B | | A | | A | | B | B | |
| potassium dichromate, aqueous 40% | X | | C | X | B | C | A | | A | | C | | |
| potassium hydrogencarbonate | B | | B | | A | | | | A | | A | | |
| potassium hydrogensulfate, aqueous | X | | C | X | | | A | | A | | B | | |
| potassium hydroxide (see potash lye) | | | | | | | | | | | | | |
| potassium hypochlorite | X | | X | | A | | A | B | C | | C | | |
| potassium iodide, aqueous | X | | X | | A | | A | A | A | A | B | C | |
| potassium nitrate, aqueous | B | X | A | C | A | | A | A | A | A | B | C | |
| potassium perchlorate, aqueous | X | | X | | A | | A | A | A | A | A | B | |
| potassium permanganate, aqueous 5% | C | X | B | C | B | C | A | A | A | A | A | B | |
| potassium peroxodisulfate | X | | C | X | A | C | A | A | A | A | A | A | |
| potassium phosphates | A | | A | | | | A | | A | | X | | |
| potassium sulfate, aqueous | A | C | A | B | A | A | A | A | A | A | B | | |
| potassium sulfite | A | | A | | A | | A | | A | | A | | |
| propane, wet or gaseous | A | | A | | X | | X | | C | X | X | X | |
| propargyl alcohol, aqueous 7% | X | | X | | | | B | C | B | C | B | C | |
| propene (propylene) | X | | X | | B | | X | | X | | X | | |
| propionic acid (propane acid) | X | | X | | A | | C | X | C | X | C | | |
| propyl acetates | X | | X | | | | A | | X | | X | | |
| propylamines | X | | X | | | | A | | X | | X | | |
| propylene | X | | X | | B | | A | | X | | X | | |
| propylene glycols (propanediols) | X | | X | | X | | A | A | A | A | A | | |
| propylene oxide | X | | X | | X | | C | X | | | X | X | |
| pyridine | X | | X | | X | | C | X | C | | X | | |
| pyrrole | X | | X | | A | | | | X | | X | | |
| radiation, radioactive 108 Rad | B | B | B | B | C | C | B | | A | | X | X | |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|----------------------------------------------|-----------|------|-----------|------|----------|------|------|------|---------|------|---------|------|------|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C |
| radiation, ultraviolet | B | B | B | B | B | B | B | B | A | A | B | B | |
| rapeseed oil | A | X | B | | | | B | | B | C | X | | |
| raw sugar juice | X | | C | | A | | A | | A | | A | | |
| salicylic acid | B | | A | | A | C | A | | A | | A | | |
| sebacic esters | X | | X | | X | | B | | X | | | | |
| silber salts, generally (see exact media) | C | X | C | X | A | C | A | B | A | A | B | C | |
| silicic acids, aqueous | X | | C | X | A | B | A | A | A | A | B | C | |
| silicium dioxide - silicic acids | | | | | | | | | | | | | |
| silicon oil/ - fat | A | B | A | B | X | | A | | B | C | B | B | |
| silver nitrate, aqueous | X | | X | | A | C | A | B | A | A | B | C | |
| sodium acetate, aqueous | C | X | B | X | A | | A | | A | | B | B | |
| sodium benzoate, aqueous | A | | A | | A | | A | A | A | A | B | C | |
| sodium bromide | | | | | A | | | | A | | | | |
| sodium carbonate (soda ash) | C | X | B | C | A | B | A | A | A | A | A | A | |
| sodium chlorate, aqueous | C | X | B | X | A | A | A | C | A | A | B | B | |
| sodium chloride, aqueous (table-salt) | B | C | B | C | A | A | A | A | A | A | A | A | |
| sodium chlorite, aqueous | | | | | B | X | A | C | A | A | | | |
| sodium cyanide | C | X | C | X | A | A | A | | A | | A | A | |
| sodium dichromate | C | X | C | X | X | | A | | A | | B | | |
| sodium fluorides, generally | C | X | C | X | A | | A | | A | | B | B | |
| sodium hydrogencarbonate, aqueous | C | X | C | X | A | | A | A | A | A | A | | |
| sodium hydrogensulfate | C | X | B | X | A | | A | | A | | A | | |
| sodium hydrogensulfite, aqueous 10% | B | X | B | X | A | A | A | B | A | A | A | | |
| sodium hydroxide (caustic soda), aqueous 10% | C | X | B | C | A | B | A | B | A | A | B | C | |
| sodium hydroxide (caustic soda), aqueous 50% | X | | X | | X | | C | X | A | A | C | X | |
| sodium hypochlorite, aqueous 10% | C | X | B | C | A | | C | X | A | B | C | X | |
| sodium metaphosphates | A | | A | | A | | A | | B | | A | | |
| sodium nitrate, aqueous 10% | B | C | B | C | A | B | A | A | A | A | B | B | |
| sodium nitrite | C | X | B | X | A | A | A | A | A | A | B | C | |
| sodium perborate | X | | X | | B | C | A | | A | | A | | |
| sodium phosphates | B | C | B | C | A | A | A | A | A | A | B | B | |
| sodium silicate, aqueous | X | | C | | A | | A | | A | | A | A | |
| sodium sulfate, aqueous (Glauber's salt) | B | C | A | B | A | A | A | A | A | A | A | A | |
| sodium sulfides | B | | B | | A | | A | B | A | B | | | |
| sodium sulfite, aqueous 3% | A | B | A | B | A | A | A | B | A | A | A | | |
| sodium thiosulfate | B | | A | | A | A | A | A | A | A | A | | |
| solvents, generally (see exact media) | X | | X | | X | | X | | X | | X | | |
| soybeans oil | A | | A | | B | X | B | C | B | | A | | |
| spirits | A | | A | | A | A | A | | A | A | A | | |
| starch sugar | B | C | B | C | A | | A | | A | A | A | | |
| starch, aqueous | X | | X | | A | | A | | A | A | A | | |
| steam of oleum | X | | X | | C | | | | C | | X | | |
| stearic acid | C | X | B | C | A | B | B | C | A | C | A | | |
| styrene | X | | X | | X | | X | | X | | X | X | |
| succinic acid, aqueous | X | | C | X | A | A | A | A | A | A | B | X | |
| sugar syrup (saccharose) | B | C | A | B | A | B | A | A | A | A | A | A | |
| sugar, dry | A | B | A | A | A | A | A | A | A | A | A | A | |
| sulfonic acids, generally | X | | X | | A | B | B | C | A | | A | | |
| sulfur trioxide (sulfur acid anhydride) | X | | X | | X | | X | | X | | X | X | |
| sulfuric acid, 25% | X | | C | X | B | C | A | B | A | B | C | X | |
| sulfuric acid, 3% | C | X | A | B | A | A | A | A | A | A | A | C | |
| sulfuric acid, 50% | X | | X | | C | X | B | C | B | C | X | X | |
| sulfuric acid, 90% (fuming, oleum) | X | | X | | X | | X | | C | X | X | | |
| sulphur hexafluoride | | | | | | | | | | | | | |
| tallow (talcum) | B | C | B | C | A | | B | C | A | A | A | | |
| tanning acid - tannine | B-C | | B | | A | | A | | A | B | B | | |
| tannins (tanning acid) | C | B | B | C | A | | A | | A | A | A | | |
| tar (tar oil) | X | | X | | C | X | A | | X | | C | | |
| tartalic acid, aqueous | B | C | A | B | A | | A | A | A | A | A | A | |

| Media/ Substance | ESTER TPU | | ETHER TPU | | SOFT-PVC | | TPV | | HYPALON | | SILICON | | TPE |
|-----------------------------------------|-----------|------|-----------|------|----------|------|------|------|---------|------|---------|------|------|
| | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C | 60°C | 23°C |
| tea tree oil | B | | B | | | | | | B | | C | | |
| tee, aqueous | | | | | A | A | | | | | | | |
| tetrachlorocarbonates - chloromethanes | | | | | | | | | | | | | |
| tetrachloroethane | X | | X | | X | | X | | X | | X | | |
| tetrachloroethylene (perchloroethylene) | X | | X | | X | | X | | C | X | X | | |
| tetrahydrofuran | X | | X | | X | | X | | X | | X | X | |
| Tetralin (tetrahydronaphthalene) | X | | X | | X | | X | | X | | X | | |
| thionyl chloride | X | | X | | X | | X | | A | | X | | |
| thiophene | X | | X | | X | | X | | X | | X | | |
| tin-II-chlorides, aqueous | C | X | B | C | A | B | A | B | B | C | B | | |
| tincture of iodine | X | | X | | B | | | | B | | X | | |
| toluene | X | | X | | X | | X | | X | | X | X | |
| town gas, free of benzene | A | | A | | A | | C | X | C | X | C | X | |
| transformer oil (see oil) | | | | | | | | | | | | | |
| tributyl phosphate | X | | X | | X | | A | | X | | X | | |
| trichloroethanes (methyl chloroform) | X | | X | | C | | B | | X | | X | | |
| trichloroacetic acid | X | | X | | B | | C | | C | X | X | | |
| trichloroethylene | X | | X | | X | | X | | X | | X | | |
| trichloromethanes (see chloromethanes) | | | | | | | | | | | | | |
| tricesyl phosphate | X | | X | | X | | B | | X | | X | | |
| triethylenamine | B | | B | | B | | A | | X | | A | | |
| triethylene glycol | B | C | B | C | | | A | | A | | B | | |
| turpentine | X | | X | | X | | X | | X | | X | | |
| turpentine, oil of | X | | X | | X | | X | | X | | X | | |
| urea, aqueous | C | X | C | X | A | C | A | | A | | C | X | |
| urine | A | | A | | A | | A | | A | | A | | |
| varnish | C | | B | | X | | X | | X | | X | | |
| vaseline | X | | A | | B | X | | | X | | B | | |
| vinegar | X | | C | | B | | A | | C | | A | | |
| vinyl acetate | X | | X | | X | | B | | C | | X | | |
| vinyl chloride | X | | X | | X | | B | C | X | | X | X | |
| waste water | X | | | | A | | | | A | | A | | |
| water | A | C | A | A | A | A | A | A | A | A | A | A | |
| water, mineral water - water | B | C | A | | A | A | A | A | A | A | A | A | |
| water, sea water/salt water - eau | A | C | A | A | A | A | A | A | A | A | A | A | |
| water-glass, aqueous | X | | C | X | A | B | A | A | A | A | B | C | |
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| whale oils | B | | B | | B | | | | C | | A | | |
| wine | A | | A | | A | | A | | A | | A | | |
| wood oil | C | | B | | C | | | | C | | C | | |
| XYLAMON | C | | C | | | | X | | X | | X | | |
| xylenes | X | X | X | X | X | | X | | X | | X | | |
| yeast, aqueous | X | | A | | A | | A | | A | | A | | |
| zinc acetate, aqueous | X | | X | | X | | | | B | | X | | |
| zinc chloride, aqueous | B | C | B | C | A | B | A | A | A | A | A | | |
| zinc sulfate, aqueous | B | C | B | C | A | A | A | A | A | A | A | | |

LEYENDA / LEGENDA

| | |
|----------|----------------------------|
| A | Excelente / Excellent |
| B | Bueno / Good |
| C | Aceptable / Suitable |
| X | No resistente / Do not use |
| - | Sin datos / No data |

RECOMMENDATIONS OF STORAGE AND MAINTENANCE

Los materiales plásticos a lo largo de su vida útil están sujetos a cambios que pueden afectar sus propiedades inclusive sus materiales de refuerzo ya sean de acero o textil que pueden verse afectados por diversos factores o por ser almacenados de una manera inadecuada. A continuación, les ofrecemos recomendaciones para un mejor almacenamiento del producto para prevenir y minimizar su deterioro.

Tiempo de almacenamiento: el almacenaje debe ser reducido al menor tiempo posible utilizando un sistema continuo de rotación. Cuando no se pueda evitar una duración mayor del almacenamiento, se sugiere reducir el número de rollos por pale evitando sobrecargar los rollos inferiores y comprobar el tubo antes de ser usado. Las mangueras deben ser utilizadas en un tiempo no mayor a dos años desde su manufacturación y un año para mangueras ensambladas. La fecha de la producción de la manguera se encuentra en la misma.

Temperatura y Humedad: la temperatura ideal para el almacenamiento de nuestras mangueras es de entre 10°C y 25°C. Las mangueras no deben estar sometidas a temperaturas mayores a +40°C o menores a 0°C. En caso de temperaturas menores a -15°C recomendamos tomar precauciones al manipular el producto.

Exposición a la luz

Recomendamos almacenar nuestros productos en lugares que eviten de forma prolongada la exposición a la luz solar, artificial y agentes atmosféricos, así como fuentes cercanas que puedan generar ozono. Contactos con otros materiales

Las mangueras en su almacenamiento no deben entrar en contacto con otras sustancias como disolventes, combustibles, aceites, grasas, sustancias químicas volátiles, ácidos, desinfectantes y líquidos orgánicos en general así como en zonas de ambiente corrosivo.

Almacenamiento y condiciones de limpieza: las mangueras deben ser almacenadas sin que estén deformadas, comprimidas o cerca de objetos que puedan perforar o cortar. Se recomienda usar estanterías especiales para estas y asegurarse que el piso este seco antes de colocarlas. También hay que almacenarlas de manera horizontal sin apilar y asegurarse que la altura sea la adecuada evitando deformaciones a las mangueras de abajo. Cuando se está almacenando la manguera, el diámetro interno del rollo debe ser el adecuado y nunca inferior al recomendado por nuestra fábrica de manera de mantener las propiedades mecánicas. Es importante nunca colgar las mangueras en ganchos, las mangueras que sean entregadas en forma vertical se deben almacenar en forma horizontal para evitar que se doblen o se deformen. Tener también especial atención con mangueras que vengán ya ensambladas y evitar almacenar en patios o lugares, donde pueda haber presencia de insectos y roedores.

Aparte de la correcta manipulación y almacenamiento también es importante llevar a cabo una limpieza regular antes y después de su utilización para evitar la contaminación de los medios transportados, así como de los accesorios ensamblados a las mangueras.

Se recomienda tapar los extremos de las mangueras para evitar la entrada de partículas que las contaminen.

Plastic Materials are subjected during their service life to changes which could affect their physical properties. Even the reinforcement materials, both textile and steel ones, could be affected by different factors, not least an inadequate storage. The following recommendations contain some guidelines to minimize or prevent the deterioration of the stored products.

Storage duration: storage times should be reduced to a minimum through a scheduled rotation system.

Where a long storage time cannot be avoided, it should be suggested a thorough inspection of the hose before its actual use. The entry into the service of unconnected hoses (see the date stated on the hose marking) should take place within two years whereas a year should be advisable for assemblies.

Temperature and humidity: the ideal temperature for an appropriate storage ranges from 10°C and 25°C. Hoses should not be exposed at temperatures exceeding 40°C or under 0°C. In case of temperatures inferior to -15°C we recommend to take some precautions when handling the hoses: they should not be stored neither near heat sources nor in the presence of high or low humidity levels (they should not exceed 65%).

Light exposure: we recommend to store the hoses in rather unlit spaces, especially avoiding direct sunlight or intense illumination sources. In presence of windows, a solar shielding is recommended.

Contact with other materials: hoses must not come into contact with solvents, fuels, oils, grease, volatile chemical substances, acids, disinfectants and organic liquids in general.

Storage and cleaning conditions: Hoses must be stored without stress, elongations, compressions, extreme deformations and avoiding any contact with sharp or cutting objects. A proper storage on adequate shelves or on a dry floor /ground is recommended. Packaged rolled hoses must be stored horizontally, not piled up. If it is not possible, the height of the pile should be appropriate, to avoid permanent deformations of the hoses placed on the lowest bottom. During storage operations, the internal diameter of the coil must be adequate, in order to keep the mechanical properties of the hose and it must not be inferior to the rate stated by the manufacturer. It's a good rule anywhere, not to hang the hoses on hooks and to store horizontally those hoses which are delivered straight, to avoid any bending. In case of assemblies, it is recommended to place the hoses carefully. The hoses must be protected from rodents.

In addition to a correct storage and handling, a regular cleaning is equally important, to avoid any pollution of the transported media, which may damage the devices connected to the hose. It is recommended to close carefully both edges of the hose, to prevent the possibility of foreign bodies.

You should use specific cleaning solutions and we recommend not to use neither solvents (petroleum or paraffin, etc.) nor abrasive, sharp

Se deben utilizar productos de limpieza específicos y se recomienda evitar el uso de solventes y derivados del petróleo, así como de objetos o productos abrasivos. Para más información contacte nuestras oficinas.

Manipulación: las mangueras deben ser movidas cuidadosamente evitando golpes, compresiones o ser arrastradas sobre superficies abrasivas. Si se tienen que doblar o enrollar hacerlo de manera holgada, siempre con radios de curvatura superiores a los descritos en su ficha técnica de catálogo.

Las mangueras que por su peso deban ser transportadas de manera vertical, deben estar provistas de soportes durante el trayecto para evitar que se doblen.

or cutting tools (wire brushes, sandpaper, etc.). For further details contact our offices.

Handling: Hoses must be moved carefully, avoiding collisions, dragging on abrasive surfaces and compressions. If bent or coiled, they must be pulled gently. Heavy-weight hoses, which are usually delivered straight, must be transported on special supports.



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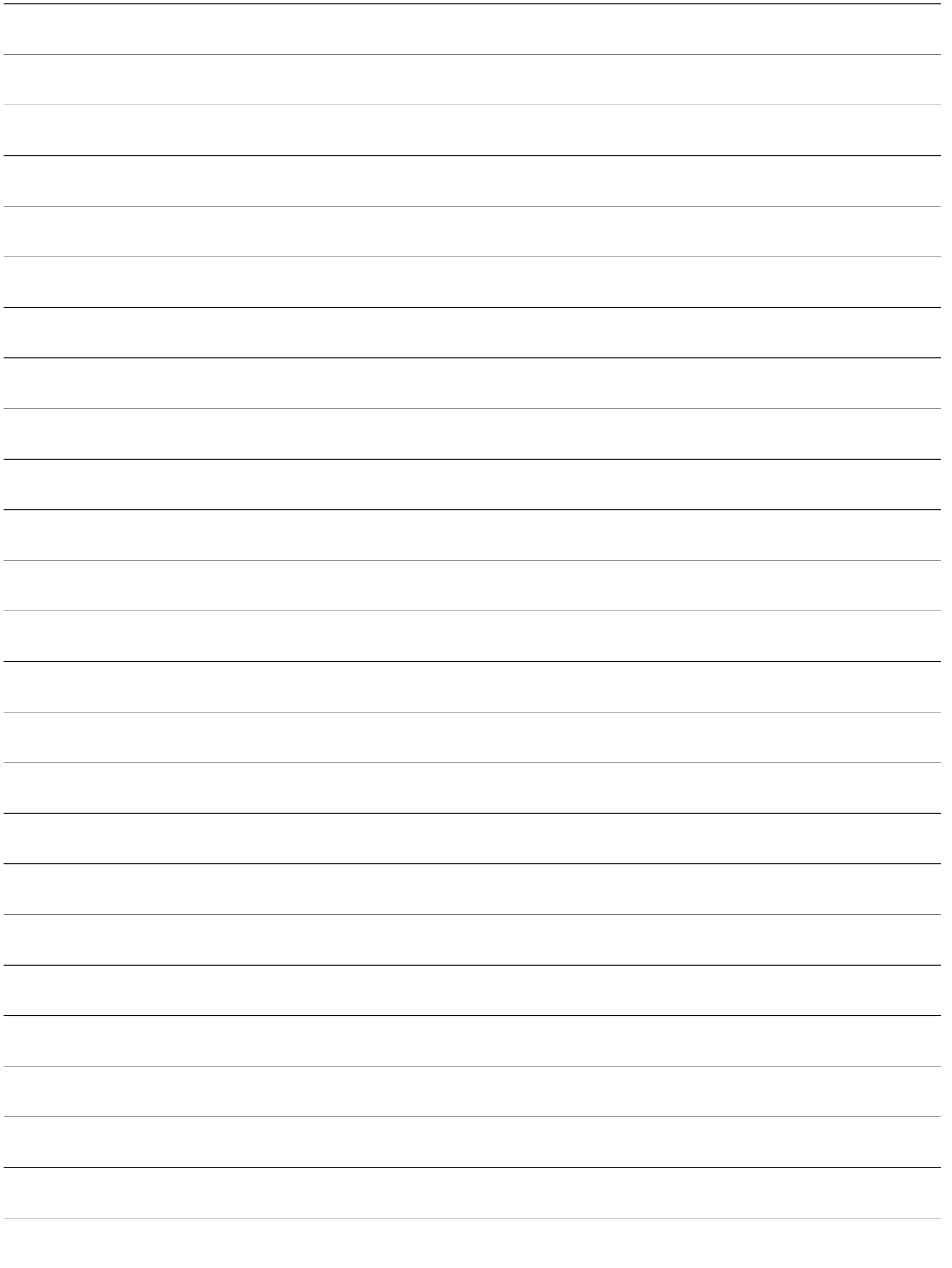
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