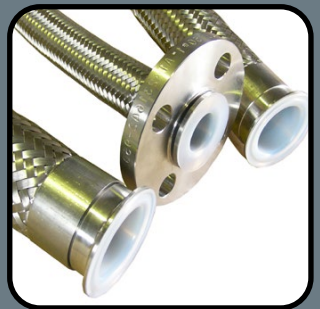
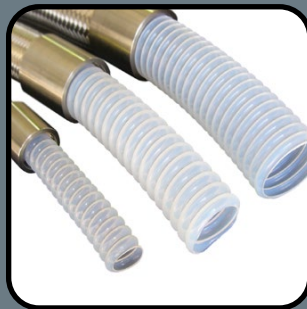


01



PTFE HOSE

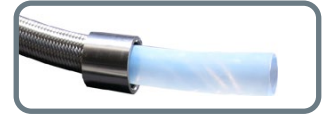
Range

SMOOTHBORE PTFE

Size : 1/8" to 1 1/8"

Working Pressure : 5171 to 20700 kPa

Page 9



SMOOTHBORE HIGH PRESSURE PTFE

Size : 1/4" to 1 1/8"

Working Pressure : 32,000 kPa

Page 10



ULTRA HIGH SMOOTHBORE PRESSURE PTFE

Size : 1/4" to 1"

Working Pressure : 25000 to 47500 kPa

Page 11



HIGH PRESSURE PTFE THERMOPLASTIC SMOOTHBORE

Size : 1/8" to 13/32" | Working Pressure : 31000 to 55200 kPa

Page 12



TAPE WRAPPED CONVOLUTED PTFE

Size : 3/8" to 4"

Working Pressure : 1000 to 6900 kPa

Page 13



EASYFLEX CONVOLUTED PTFE

Size : 3/8" to 2"

Working Pressure : 2300 to 13800 kPa

Page 14



ENCAPSULATED PTFE

Size : 1/4" to 6"

Working Pressure : 500 to 1500 kPa

Page 15



ENCAPSULATED PTFE SS1 METALLIC HOSE

Size : 1/2" to 6"

Working Pressure : 1200 to 6500 kPa

Page 16

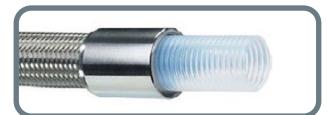


SLICKFLEX SMOOTHBORE/CONVOLUTED PTFE

Size : 1/4" to 2"

Working Pressure : 3000 to 8800 kPa

Page 17

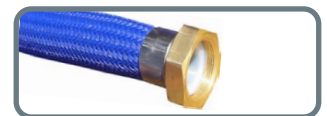


CONPRO PTFE

Size : 1/2" to 3"

Working Pressure : 600 to 1000 kPa

Page 18



CHLORINE TRANSFER PTFE

Size : 1/2" to 1"

Working Pressure : 2600 to 3400 kPa

Page 19



PTFE ULTRA HIGH PRESSURE GAS CYLINDER HOSE

Size : 1/4"

Working Pressure : 47500 kPa

Page 20

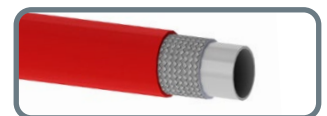


TEFLEX SILICONE JACKET PTFE

Size : 1/4" to 1"

Working Pressure : 6200 to 22500 kPa

Page 21



RUBBER FEP LINER

Size : 1/2" to 4"

Working Pressure : 1034 to 3447 kPa

Page 22



PTFE TUBING

Size : Imperial = 1/16" to 1" | Metric = 2mm to 32mm |

Working Pressure : 1034 kPa

Page 23-24





PTFE Hose Design

Introduction

Polytetrafluoroethylene (PTFE) is an engineered fluoropolymer. Outstanding resistance to chemicals is one of its primary attributes. All PTFE products are either post sintered or slow sintered. Post sintered PTFE gives the best overall performance on permeation therefore is better for use with gases. Slow sintered allow for a better level of permeation but not as good as post sintered. Slow sintered PTFE is mainly used for fluids. Post sintered in available in the UHP-PTFE (Ultra High Pressure Smoothbore PTFE) Range. Refer to Page 11.

A broad temperature range of -54°C to 260°C makes this hose material suitable for the majority of fluids and ambient temperature conditions found in most industries. With all types of hose, increased working temperatures require a reduction in maximum rated working or burst pressure. Whenever excessive flexing, vibration, thermal fluctuations or rapid pressure impulsing is in evidence, further caution should be exercised in reducing the maximum working pressure.

An extremely low coefficient of friction (0.05 to 0.20) provides a non-stick surface. Water absorption of PTFE is negligible, less than 0.01% by ASTM test, and it is FDA-approved for food and pharmaceutical use.

Additionally, PTFE will withstand flexing and vibration without failure from flex fatigue. PTFE is chemically inert. It will not break down or deteriorate in service, and it has an unlimited shelf life because properties do not change with age or exposure to weather. PTFE hose can be used in aerospace, automotive, chemical and industrial applications.

Pacific Hoseflex offers PTFE hose in a variety of configurations. PTFE hose innercore is offered in smooth bore, convoluted, smooth inner with a convoluted outer, conductive (Carbon black added) anti-static and non-conductive virgin. Type 304 or 316 stainless steel wire braid is the standard reinforcement with other speciality materials available.

Pacific Hoseflex can offer alternative hose covers for chafe resistance and silicone-covered hose for heat and fire resistance. Alternate braid materials include Nomex braided convoluted hose and Kevlar braided high-pressure smoothbore hose.

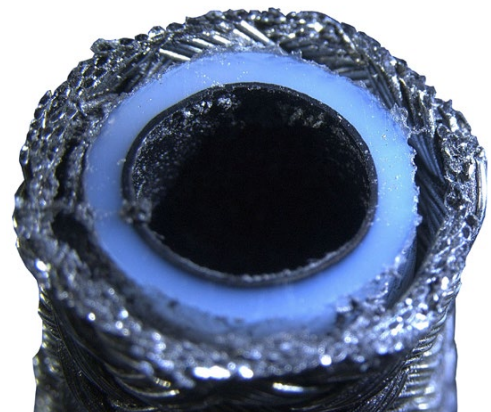
All stated burst pressures are static and are measured on samples at ambient temperature from which averages are recorded to create relevant specifications. Proof or test pressures are usually twice working pressure. All burst pressures are conservatively rated to provide a high margin of safety. At working pressure this falls within the range +2% to -4% (1/8" & 3/16" +0% to -6%). Pacific Hoseflex 100% tests all assemblies.

A damaging electrostatic charge can build up inside the hose when electrically resistive fluids are being transmitted at very high flow rates (particularly if the PTFE hose assemblies are lengthy). To prevent this, special carbon is mixed with the PTFE to reduce its resistivity. The need for earth conductor braids or wires in the bore of the hose is therefore eliminated.

Regarding PTFE tubing, PTFE Hose and Hose Assemblies: Please be advised that we have found no instance of the use of bovine or other animal derived materials used in the manufacture of our PTFE braided products. The subject products are 100% animal origin free. Therefore, there is no concern with regard to the BSE/TSE issue in the PTFE tube and hose as defined in specification EMEA 410.01 Rev.2.

Temperature Correction Factor Table

| WORKING PRESSURE P.S.I. | | | | % CATALOGUE WORKING PRESSURE THAT MAY BE SAFELY USED |
|---------------------------------|--------|--|-----------------|--|
| 4000 | DO NOT | | DO NOT | DEGREES °C |
| 3000 | USE | | USE | -60 TO +100 100 |
| 2000 | BELOW | | ABOVE | +100 TO +150 93 |
| 1000 | -60°C | | | +150 TO +200 85 |
| | | | | +200 TO +250 77 |
| | | | +250 TO +260 70 | |
| DEGREES °C -60 0 +100 +200 +260 | | | | |



Conductive Hose

Conductive Hose Use

There are general principles we have applied to understand if anti-static (AS) is required or not and this very much depends on the medium passing through the hose.

1. For a single phase medium passing through the hose, AS is usually considered necessary where the medium electrical conductivity is less than 10,000 pS/m (pico Siemens per meter). Note electrical conductivity is not always known and electrical conductivity varies with temperature.
2. For a two (or more) phase medium (e.g. a mixture of gas and liquid (such as wet steam), solid particles and liquid or solid particles and gas) AS IS ALWAYS REQUIRED.
3. Pure clean gases should not require AS.
4. If there is any doubt always use AS. (Often customers do not know the electrical conductivity of the medium passing through the hose)

STATEMENT ON RECOMMENDED FLOW RATES (CONDUCTIVE OR NON-CONDUCTIVE HOSE)

Limiting flow velocities in hoses often relates to electrostatic charging/discharging issues. There are standards for chemical plant equipment (e.g. IEC 60069-32-1) which recommend flow velocities should be less than 7 m/s for low conductivity fluids e.g. fluids which would generate potentially damaging electrostatic charges. Cavitation is likely to be related to this in that a two phase flow would be formed (e.g. gas bubbles in a liquid) and would generate high levels of electrostatic charge. The whole area of electrostatic charging is complex in that a low conductivity fluid can become electrostatically charged as it flows through a pipe or hose.

At the same time the pipe or hose also becomes charged (with the opposite polarity of charge to that in the fluid). As far as hoses go we can supply an AS hose to take care of any charge which tries to build up on the inner surface of the liner (e.g. giving any charge a path to earth) and prevent electrostatic discharges taking place through the hose wall. However normally this does not remove much electrostatic charge from the fluid passing through. Designers of chemical plants are aware of low conductivity fluids becoming charged and are supposed to take this into account when the plant is designed.

As far as hoses are concerned we should recommend an AS hose when we are aware the application needs one e.g. a low conductivity fluid or two phase flow is going to pass through. This will depend on information we obtain from the customer. If they can't supply enough information to make a decision between a natural PTFE liner or AS liner then the default should be to offer an AS liner. Under these circumstances there should be no need to limit the flow velocity in our hoses.



Vacuum Performance

Hose construction determines the 'hoop' strength or the relative ability of the hose to resist collapse. Generally, smaller IDs, thicker walls, external reinforcement such as wire wrap or covers and bonding together the hose layers serve to increase hoop strength. As the temperature of a hose increases, the hoop strength typically decreases because the hose material softens.

As a hose approaches its static bend radius limit, hoop strength can be adversely affected because the hose profile will go from round to oval. If combinations of these factors exist (i.e. large ID, thin wall, high temperature, extreme bending), hoop strength is reduced further.

PTFE hose is a relatively thin walled product and is therefore subject to vacuum collapse if not properly specified and protected. With single braided smooth bore hose, the unbounded metal braid (the pressure handling element of the hose) is of limited value in a vacuum application, especially as temperature increases.

The addition of internal or external springs or bonded covers is the best way to overcome potential vacuum collapse. Certain styles and smaller sizes, smooth bore hoses are rated to 28 Hg at ambient temperature and within specified bend radius.

When vacuum is involved in an application, always determine the expected range of temperature and the potential bending conditions before specifying a particular hose. A common mistake to be avoided involves the use of a transfer hose connected to an 'upstream' valve. Since the hose assembly is open ended, the vacuum that is created when the valve is closed can be overlooked.

However as fluid continues to flow downstream, the vacuum created can often exceed 28 Hg, causing even a 'full vacuum' rated hose to collapse. In this case, additional reinforcement is recommended.



PTFE Hose - SB6S

Smoothbore PTFE

Part No.: SB6S

Construction: Smoothbore

Profile: Medium Flexibility / Medium Pressure

Tube Available: PTFE Virgin / Anti-static Inner Tube

Braid Available: 316 / 304 Stainless Steel

Size Available: 1/8" - 1 1/8"

Temperature: -70°C to 260°C

Low | Med | High

Flexibility

Cycle Life

Pressure Rating

Chemical Resistance

Wall Thickness



Construction

Use: The inner hose core is manufactured from PTFE. No pigments or additives are incorporated, thus giving the hose liner a translucent appearance free from any contamination.

Standards: FDA Approved, Accepted by the U.S. Coast Guard, PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550
ISO 1402 – Rubber and plastic hose and assemblies – hydrostatic testing
SAE J517 – Dimensional and performance Specification
SAE 100R14 – PTFE Dimensional and performance Specification

Sintered/Permeation:

Slow Sintered (medium level of permeation)

Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter (mm) | | Wall Thickness (mm) | Outside Diameter (mm) | | Min. Bend Radius (mm) | SAE 100R14 Max. Working Pressure | | SAE 100R14 Burst Pressure 4:1 | | Vacuum (mm hg) |
|------------------|-------------|------------------------|-------|---------------------|-----------------------|-------|-----------------------|----------------------------------|------------|-------------------------------|------------|----------------|
| | | Min. | Max. | | Min. | Max. | | kPa | Bar | kPa | Bar | |
| 316 Braid | Inch | | | mm | | | | kPa | Bar | kPa | Bar | mm hg |
| SB6S-03-R14 | 1/8" | 3.3 | 3.5 | 0.76 | 5.84 | 6.35 | 38 | 20700 | 207 | 82800 | 828 | 711.20 |
| SB6S-04-R14 | 3/16" | 4.64 | 5.2 | 0.76 | 7.32 | 8.2 | 51 | 20700 | 207 | 82800 | 828 | 711.20 |
| SB6S-06-R14 | 1/4" | 6.17 | 6.73 | 0.76 | 8.92 | 9.47 | 76 | 18098 | 180 | 72392 | 723 | 711.20 |
| SB6S-08-R14 | 5/16" | 7.54 | 8.38 | 0.76 | 10.36 | 11.63 | 102 | 17236 | 172 | 68944 | 689 | 711.20 |
| SB6S-10-R14 | 3/8" | 9.27 | 9.77 | 0.76 | 12.2 | 13.21 | 127 | 15513 | 155 | 62052 | 620 | 711.20 |
| SB6S-11-R14 | 13/32" | 10.08 | 10.85 | 0.76 | 13.03 | 14.19 | 133 | 13789 | 137 | 55156 | 551 | 711.20 |
| SB6S-12-R14 | 1/2" | 12.42 | 13.18 | 0.76 | 15.44 | 16.71 | 165 | 10342 | 103 | 41368 | 413 | 711.20 |
| SB6S-15-R14 | 5/8" | 15.36 | 16.38 | 0.76 | 18.74 | 20.02 | 197 | 8618 | 86 | 34472 | 344 | 711.20 |
| SB6S-20-R14 | 3/4" | 18.61 | 19.38 | 0.89 | 21.59 | 22.86 | 229 | 7584 | 75 | 30336 | 303 | 508.00 |
| SB6S-22-R14 | 7/8" | 21.46 | 23.0 | 0.89 | 24.60 | 26.90 | 229 | 6894 | 68 | 27576 | 275 | 355.59 |
| SB6S-25-R14 | 1" | 24.63 | 26.16 | 0.89 | 27.80 | 29.85 | 305 | 6205 | 62 | 24820 | 248 | 355.59 |
| SB6S-28-R14 | 1 1/8" | 27.80 | 28.34 | 1.14 | 31.95 | 33.50 | 406 | 5171 | 51 | 20684 | 206 | 355.59 |

* Please note that Hoseflex PTFE HOSE meets and exceeds the stated working and burst pressure (4:1) values of the SAE 100R14 specifications.

* Please note all pressures stated are static

Applications





PTFE HOSE

PTFE Hose - PTFE-HP

Smoothbore High Pressure PTFE

Part No.: PTFE-HP

Construction: Smoothbore

Profile: Low Flexibility / High Pressure

Tube Available: PTFE Virgin Inner Tube

Braid Available: Double 304 Stainless Steel Braid

Cover: Optional Hytrel Cover, use Part Number PTFE-HP-06-H

Size Available: 1/4"

Temperature: -60°C to 260°C

Note: Only available as an assembly

Sintered/Permeation:

Slow Sintered (medium level of permeation)

Low | Med | High

Flexibility

Cycle Life

Pressure Rating

Chemical Resistance

Wall Thickness

Construction

Use:

Slow sintered PTFE hose that is ideal for gas delivery applications due to lower permeation. Double braided to provide higher pressure rating for high pressure gas applications.

Standards:

Part 1.PTFE-E.P.D.M 1.6.1.C.E.4_12

ISO 1402 – Rubber and plastic hose and assemblies – hydrostatic testing

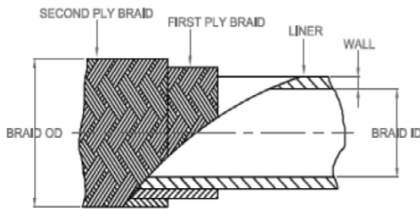
SAE J517 – Dimensional and performance Specification



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Tube Wall Thickness | Outside Diameter | Min. Bend Radius | Max. Working Pressure | | Min. Burst Pressure | |
|--------------|------|---------------------|------------------|------------------|-----------------------|-----|---------------------|------|
| | inch | mm | mm | mm | kPa | bar | kPa | bar |
| PTFE-HP-06 | 1/4" | 1.02 | 11.43 | 76 | 32000 | 320 | 128000 | 1280 |
| PTFE-HP-06-H | 1/4" | 1.02 | 11.43 | 76 | 32000 | 320 | 128000 | 1280 |



Applications





PTFE HOSE

PTFE Hose - PTFE-UHP

Ultra High Pressure Smoothbore PTFE

Part No.: PTFE-UHP

Construction: Smoothbore

Profile: High Flexibility / High Pressure

Tube Available: PTFE Virgin / Anti-static Inner Tube

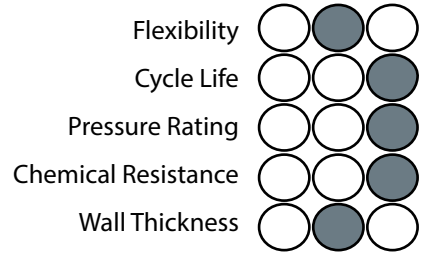
Cover: 2 Aramid braids and 1 high tensile 304 maypole wound Stainless steel braid

Size Available: 1/4" - 1"

Temperature: -60°C +260°C

Sintered/Permeation: Slow Sintered (medium level of permeation). 1/4, 3/8" and 1/2" are available in Post Sintered on request (example PTFE-UHP-xx-PS)

Low | Med | High



Construction

Use:

Ultra high pressure smoothbore PTFE is highest pressure hose and the lightest weight PTFE Hose on the market. Performing well above its weight due to its excellent routability, bend radius and reduced OD. Used for High pressure gas or fluid applications.

Standards:

FDA Approved, Accepted by the U.S. Coast Guard,
 PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550 ISO
 ISO 1402 – Rubber and plastic hose and assemblies – hydrostatic testing
 SAE J517 – Dimensional and performance Specification



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter | Outside Diameter | Min. Bend Radius | Working Pressure | | Burst Pressure | |
|-------------|-------|-------------------|------------------|------------------|------------------|-----|----------------|------|
| | inch | mm | mm | mm | kPa | bar | kPa | bar |
| PTFE-UHP-06 | 1/4" | 6.20 | 12.30 | 38 | 47500 | 475 | 190000 | 1900 |
| PTFE-UHP-08 | 5/16" | 8.10 | 14.20 | 47 | 45000 | 450 | 180000 | 1800 |
| PTFE-UHP-10 | 3/8" | 9.50 | 16.00 | 64 | 43000 | 430 | 175000 | 1750 |
| PTFE-UHP-12 | 1/2" | 12.70 | 19.50 | 74 | 42500 | 425 | 170000 | 1700 |
| PTFE-UHP-15 | 5/8" | 15.10 | 22.00 | 90 | 36000 | 360 | 145000 | 1450 |
| PTFE-UHP-20 | 3/4" | 20.00 | 27.50 | 180 | 27500 | 275 | 110000 | 1100 |
| PTFE-UHP-25 | 1" | 24.00 | 31.80 | 200 | 25000 | 250 | 100000 | 1000 |

Applications



PTFE HOSE



PTFE HOSE

PTFE Hose - PTFE-HPPT

High Pressure PTFE Thermoplastic Smoothbore

Part No.: PTFE-HPPT

Construction: Smoothbore

Profile: High Flexibility / High Pressure

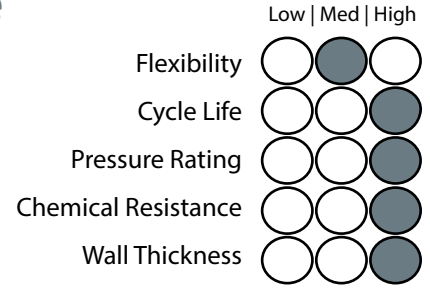
Tube Available: PTFE Virgin / Anti-static Inner Tube

Cover: Black Perforated Thermoplastic

Size Available: 1/4" - 13/32"

Temperature: -70°C +260°C

Sintered/Permeation: Slow Sintered (medium level of permeation)



Construction

Use:

High performance gas hose specially processed to minimise permeation applications. Aerosol, gas bottle, dehydration and breathing lines.

Standards:

- FDA Approved, Accepted by the U.S. Coast Guard,
- PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550
- ISO 1402 – Rubber and plastic hose and assemblies – hydrostatic testing
- SAE J517 – Dimensional and performance Specification



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter (mm) | | Wall Thickness (mm) | Outside Diameter (mm) | | Min. Bend Radius (mm) | Standard Max. Working Pressure | | Min. Burst Pressure | |
|--------------|--------|------------------------|-------|---------------------|-----------------------|-------|-----------------------|--------------------------------|-----|---------------------|------|
| | | Min. | Max. | | Min. | Max. | | kPa | bar | kPa | bar |
| PTFE-HPPT-06 | 1/4" | 6.35 | 6.86 | 1.02 | 9.65 | 10.67 | 76.2 | 55200 | 552 | 165500 | 1655 |
| PTFE-HPPT-10 | 13/32" | 10.03 | 10.54 | 1.02 | 13.84 | 14.86 | 133 | 31000 | 310 | 124000 | 1240 |

Applications



PTFE Hose - CTFB

Tape Wrapped Convoluted PTFE

Part No.: CTFB / CTFBHV

Construction: Tape Wrapped helical convoluted

Profile: High Flexibility / Medium Pressure

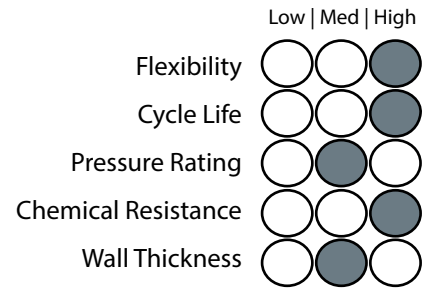
Tube Available: PTFE Virgin / Anti-static Inner Tube

Braid Available: 304 / 316 Stainless Steel

Size Available: 3/8" - 4"

Temperature: -50°C / +150°C

Sintered/Permeation: Slow Sintered (medium level of permeation)



Construction

Use:

Flame resistant convoluted multilayer PTFE hose with fibreglass covering and wire braid reinforcement for use on demanding marine and offshore applications. The convoluted profile ensures easier crimping of the hose and with the approved DNV GL fitting and ferrule range now offers a proven minimum 150K impulse cycle life expectancy at elevated temperatures.

Standards:

PTFE BS2782 Method 327A:1993 ASTM-D 882

DNV GL class programme CP-0183

- Type Approval of flexible hoses of non-metallic material



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter | Outside Diameter | Min. Bend Radius | Max. Working Pressure | | Min. Burst Pressure | | Vacuum | |
|-------------|--------|-------------------|------------------|------------------|-----------------------|-----|---------------------|-----|--------|--------|
| | inch | mm | mm | mm | kPa | bar | kPa | bar | (bar) | mm hg |
| CTFB-10 | 3/8" | 9.65 | 15.8 | 50 | 12500 | 125 | 4999 | 500 | 0.9 | 675.13 |
| CTFB-12 | 1/2" | 13.45 | 19.8 | 65 | 10501 | 105 | 4199 | 420 | 0.9 | 675.13 |
| CTFB-15 | 5/8" | 16.4 | 23.4 | 80 | 9997 | 100 | 3999 | 400 | 0.9 | 675.13 |
| CTFB-20 | 3/4" | 19.8 | 26.9 | 100 | 8998 | 90 | 3599 | 360 | 0.9 | 675.13 |
| CTFB-25 | 1" | 25 | 32.9 | 125 | 7998 | 80 | 3199 | 320 | 0.9 | 675.13 |
| CTFB-32 | 1 1/4" | 32.3 | 39.75 | 150 | 6398 | 64 | 2558 | 256 | 0.9 | 675.13 |
| CTFB-38 | 1 1/2" | 38.3 | 46.1 | 200 | 5302 | 53 | 2117 | 212 | 0.9 | 675.13 |
| CTFB-50 | 2" | 51.5 | 60.5 | 250 | 3503 | 35 | 1400 | 140 | 0.5 | 375.16 |

High Vacuum Tape Wrapped Convoluted Hose (External Spring)

| | | | | | | | | | | |
|------------|--------|--------|--------|-----|------|----|------|-----|-----|--------|
| CTFBHV-38 | 1 1/2" | 38.3 | 46.1 | 200 | 5302 | 53 | 2117 | 212 | 9.4 | 711.19 |
| CTFBHV-50 | 2" | 51.5 | 60.5 | 250 | 3503 | 35 | 1400 | 140 | 9.4 | 711.19 |
| CTFBHV-75 | 3" | 76.20 | 93.47 | 381 | 1700 | 17 | 6900 | 69 | 9.4 | 711.19 |
| CTFBHV-100 | 4" | 101.60 | 123.19 | 610 | 1000 | 10 | 4100 | 41 | 9.4 | 711.19 |

Applications



1 2 3 4 5 6 7 8 9

PTFE HOSE

PTFE Hose - ECTB

Easyflex Convoluted PTFE

Part No.: ECTB6S / ECTB4S

Construction: Convoluted

Profile: High Flexibility / Medium Pressure

Tube Available: PTFE Virgin / Anti-static Inner Tube

Braid Available: 304 / 316 Stainless Steel

Size Available: 3/8" - 2"

Temperature: -70°C to 260°C

Sintered/Permeation: Slow Sintered (medium level of permeation)

| | Low | Med | High |
|---------------------|-----|-----|------|
| Flexibility | | | |
| Cycle Life | | | |
| Pressure Rating | | | |
| Chemical Resistance | | | |
| Wall Thickness | | | |

Construction

Use:

General purpose convoluted PTFE hose, convolutions self cleaning spiral construction. Applications include food transfer, chemical dosing, oil, hydraulics and water treatment.



Standards:

FDA Approved, Accepted by the U.S. Coast Guard, PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550

Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | | Size | Internal Diameter (mm) | | Wall Thickness | Outside Diameter (mm) | | Min. Bend Radius | Standard Max. Working Pressure | | Min. Burst Pressure | |
|-------------|-----------|--------|------------------------|-------|----------------|-----------------------|-------|------------------|--------------------------------|-----|---------------------|-----|
| 316 Braid | 304 Braid | Inch | Min. | Max. | mm | Min. | Max. | mm | kPa | Bar | kPa | Bar |
| ECTB6S-10 | ECTB4S-10 | 3/8" | 9.14 | 9.91 | 0.76 | 14.73 | 15.75 | 20.30 | 13800 | 138 | 41400 | 414 |
| ECTB6S-12 | ECTB4S-12 | 1/2" | 12.45 | 13.21 | 0.89 | 18.29 | 19.30 | 25.40 | 10300 | 103 | 31000 | 310 |
| ECTB6S-15 | ECTB4S-15 | 5/8" | 15.37 | 16.38 | 0.89 | 21.59 | 22.61 | 50.80 | 8300 | 83 | 24800 | 248 |
| ECTB6S-20 | ECTB4S-20 | 3/4" | 18.54 | 19.56 | 0.89 | 24.00 | 25.27 | 63.50 | 6900 | 69 | 20700 | 207 |
| ECTB6S-22 | ECTB4S-22 | 7/8" | 21.84 | 22.86 | 0.89 | 27.94 | 29.46 | 76.20 | 5700 | 57 | 17200 | 172 |
| ECTB6S-25 | ECTB4S-25 | 1" | 24.89 | 26.16 | 1.02 | 32.13 | 33.66 | 88.90 | 4600 | 46 | 13800 | 138 |
| ECTB6S-32 | ECTB4S-32 | 1 1/4" | 31.00 | 33.00 | 1.02 | 39.00 | 42.00 | 127.00 | 3400 | 34 | 10300 | 103 |
| ECTB6S-38 | ECTB4S-38 | 1 1/2" | 37.50 | 40.50 | 1.02 | 46.99 | 49.20 | 152.40 | 3000 | 30 | 9000 | 90 |
| ECTB6S-50 | ECTB4S-50 | 2" | 48.00 | 52.00 | 1.02 | 58.67 | 59.70 | 190.50 | 2300 | 23 | 6900 | 69 |

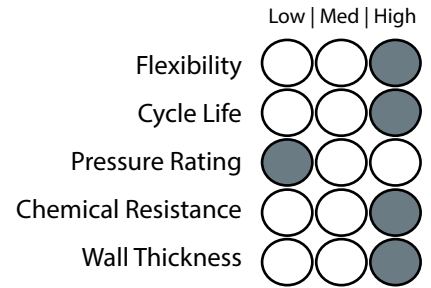
Applications



PTFE Hose - SCTB

Encapsulated PTFE

Part No.: SCTB
Construction: Convoluted
Profile: High Flexibility / Low Pressure
Tube Available: PTFE Virgin / Anti-static Inner Tube
Braid Available: 304 / 316 Stainless Steel
Size Available: 1/4" - 6"
Temperature: -70°C to 260°C
Sintered/Permeation: Slow Sintered (medium level of permeation)



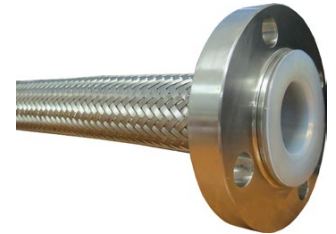
Construction

Use:

The PTFE spiral Liner is extruded within the hose and encapsulated over the flange or fitting, creating a total hygienic seal. The most hygienic PTFE on the market. Approved for food, chemical, cosmetic and pharmaceutical applications.

Standards:

FDA Approved, Accepted by the U.S. Coast Guard,
 PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter (mm) | | Wall Thickness | Outside Diameter (mm) | | Min. Bend Radius | Max. Working Pressure | | Min. Burst Pressure | | Vacuum |
|-------------|--------|------------------------|------|----------------|-----------------------|-------|------------------|-----------------------|-----|---------------------|-----|--------|
| | | Min. | Max. | | mm | Min. | | Max. | kPa | Bar | kPa | |
| SCTB-06 | 1/4" | 5.5 | 6.9 | 0.76 | 11.4 | 13.3 | 25 | 1500 | 15 | 4500 | 45 | 744 |
| SCTB-10 | 3/8" | 8.5 | 10.5 | 0.76 | 14.7 | 16.5 | 25 | 1500 | 15 | 4500 | 45 | 744 |
| SCTB-12 | 1/2" | 11.6 | 13.6 | 0.89 | 17.9 | 20.0 | 25 | 1500 | 15 | 4500 | 45 | 711 |
| SCTB-15 | 5/8" | 15.1 | 16.4 | 0.89 | 24.7 | 25.8 | 35 | 1500 | 15 | 4500 | 45 | 711 |
| SCTB-20 | 3/4" | 149.5 | 20.5 | 1.00 | 28.6 | 31.4 | 55 | 1500 | 15 | 4500 | 45 | 680 |
| SCTB-25 | 1" | 25.4 | 25.5 | 1.10 | 34.2 | 38.2 | 85 | 1500 | 15 | 4500 | 45 | 653 |
| SCTB-32 | 1 1/4" | 34.5 | 32.5 | 1.15 | 41.9 | 46.1 | 100 | 1500 | 15 | 4500 | 45 | 503 |
| SCTB-38 | 1 1/2" | 36.5 | 37.5 | 1.45 | 47.2 | 49.9 | 120 | 1500 | 15 | 4500 | 45 | 301 |
| SCTB-43 | 1 3/4" | 44.5 | 45.5 | 1.45 | 55.8 | 61.4 | 135 | 1500 | 15 | 4500 | 45 | 301 |
| SCTB-50 | 2" | 49.5 | 50.5 | 1.50 | 60.5 | 66.7 | 165 | 1500 | 15 | 4500 | 45 | 120 |
| SCTB-65 | 2 1/2" | 62.5 | 63.5 | 1.60 | 80.9 | 89.1 | 230 | 1000 | 10 | 3000 | 30 | 102 |
| SCTB-80 | 3" | 73.5 | 74.5 | 1.60 | 90.4 | 99.6 | 260 | 800 | 8 | 2400 | 24 | 102 |
| SCTB-100 | 4" | 94.5 | 99.5 | 1.82 | 121.1 | 127.5 | 400 | 800 | 8 | 2400 | 24 | 102 |
| SCTB-150 | 6" | 148 | 154 | 2.5 | 176 | 188 | 520 | 500 | 5 | 1500 | 15 | 105 |

Note: External suction/vacuum wire can be introduced to achieve high vacuum ratings

Applications



1 2 3 4 5 6 7 8 9

PTFE HOSE



PTFE HOSE

PTFE Hose - SS1SCT

Encapsulated PTFE SS1 Metallic Hose

Part No.: SS1SCT

Construction: Smoothbore PTFE / Convulved Metallic Hose

Profile: Low Flexibility / Low Pressure

Tube Available: PTFE Virgin / Anti-static Inner Tube

Braid Available: 304 / 316 Stainless Steel

Size Available: 1/2" - 6"

Temperature: -70°C to 260°C

Sintered/Permeation: Slow Sintered (medium level of permeation)

Low | Med | High

Flexibility

Cycle Life

Pressure Rating

Chemical Resistance

Wall Thickness

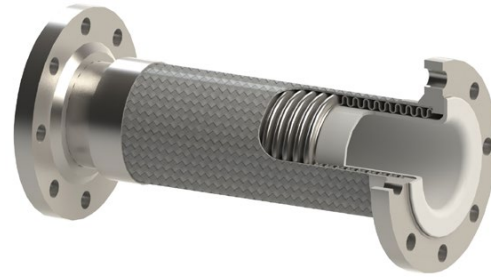
Construction

Use:

The PTFE Smoothbore Liner is extruded within the metallic hose assembly and encapsulated over the flange or fitting, creating a total hygienic seal. The most hygienic PTFE on the market. Approved for food, chemical, cosmetic and pharmaceutical applications.

Standards:

FDA Approved, Accepted by the U.S. Coast Guard, PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size inch | Outside Diameter mm | Min. Bend Radius | Working Pressure | | Burst Pressure | |
|-------------|--------------|------------------------|---------------------|------------------|-----|----------------|-----|
| | | | | kPa | Bar | kPa | Bar |
| SS1SCT-12 | 1/2" | 18.00 | LIMITED FLEXIBILITY | 6500 | 300 | 30000 | 300 |
| SS1SCT-20 | 3/4" | 28.00 | | 5000 | 200 | 20000 | 200 |
| SS1SCT-25 | 1" | 33.70 | | 4400 | 176 | 17600 | 176 |
| SS1SCT-32 | 1 1/4" | 42.60 | | 3500 | 140 | 14000 | 140 |
| SS1SCT-40 | 1 1/2" | 50.90 | | 2800 | 112 | 11200 | 112 |
| SS1SCT-50 | 2" | 61.70 | | 2000 | 80 | 8000 | 80 |
| SS1SCT-65 | 2 1/2" | 85.30 | | 1800 | 72 | 7200 | 72 |
| SS1SCT-80 | 3" | 100.30 | | 1800 | 72 | 7200 | 72 |
| SS1SCT-100 | 4" | 126.30 | | 1600 | 64 | 6400 | 64 |
| SS1SCT-125 | 5" | 155.30 | | 1400 | 14 | 5600 | 56 |
| SS1SCT-150 | 6" | 180.30 | | 1200 | 12 | 4800 | 48 |

Applications



PTFE Hose - SF6S

SLICKFLEX Smoothbore Inner / Convuluted Outer PTFE



Part No.: SF6S

Construction: Smoothbore inner with Convuluted on the outer

Profile: High Flexibility / Medium Pressure

Tube Available: PTFE Virgin / Anti-static Inner Tube / PFA

Braid Available: 316 Stainless Steel

Size Available: 1/4" - 2"

Temperature: -70°C to 260°C

Vacuum Resistance: Full Vacuum up to 130°C

Sintered/Permeation: Slow Sintered (medium level of permeation)

Low | Med | High

Flexibility

Cycle Life

Pressure Rating

Chemical Resistance

Wall Thickness

Construction

Use: PTFE liner tube is smoothbore on the inside but convoluted on the outside, to combine the ease of assembly and high flow rates of a smooth bore hose with the flexibility and kink resistance. Pharmaceutical, Bio-tech, Food & Beverage, Chemical, Petro-chemical, General Purpose Industrial, Automotive OE & Autosport

Standards: PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550 (on request) ISO 1402 – Rubber and plastic hose and assemblies

PTFE T62X according to "ASTM D4895, Type 1, Grade4, Class B", EU Food, USP Class VI.



Options:

Blue EPDM Cover



Silicon Cover



Polypropylene Braid



Encapsulated Hose Ends



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter | Wall Thickness | Outside Diameter (mm) | | Min. Bend Radius | Standard Max. Working Pressure | | Min. Burst Pressure | |
|-------------|--------|-------------------|----------------|-----------------------|------|------------------|--------------------------------|-----|---------------------|-----|
| | inch | | | mm | Tube | | Braid | kPa | bar | kPa |
| SF6S-06 | 1/4" | 6.8 | 1.6 | 8.6 | 9.6 | 19 | 8800 | 88 | 35000 | 350 |
| SF6S-10 | 3/8" | 10.0 | 1.6 | 12.5 | 13.5 | 25 | 8000 | 80 | 32000 | 320 |
| SF6S-12 | 1/2" | 13.4 | 1.6 | 16.4 | 18.0 | 38 | 6000 | 60 | 24000 | 240 |
| SF6S-20 | 3/4" | 19.1 | 1.8 | 20.0 | 24.1 | 50 | 6000 | 60 | 24000 | 200 |
| SF6S-22 | 7/8" | 21.0 | 2.1 | 23.8 | 27.0 | 55 | 5500 | 55 | 20000 | 170 |
| SF6S-25 | 1" | 25.5 | 2.2 | 30.0 | 31.4 | 70 | 5000 | 50 | 20000 | 160 |
| SF6S-32 | 1 1/4" | 31.8 | 2.65 | 37.3 | 39.3 | 100 | 4500 | 45 | 18000 | 180 |
| SF6S-38 | 1 1/2" | 38.1 | 3 | 45.0 | 46.1 | 140 | 4000 | 40 | 16000 | 160 |
| SF6S-50 | 2" | 50.8 | 3 | 59.1 | 61.0 | 200 | 3000 | 30 | 12000 | 120 |

Applications



1 2 3 4 5 6 7 8 9

PTFE HOSE



PTFE HOSE

PTFE Hose - CONPRO

Convuluted PTFE

Part No.: CONPRO

Construction: Convuluted

Profile: High Flexibility / Low Pressure

Tube Available: PTFE Virgin / Anti-static Inner Tube

Braid Available: Polypropylene

Size Available: 1/2" - 3"

Temperature: -70°C to 260°C

Sintered/Permeation: Slow Sintered (medium level of permeation)

Low | Med | High

Flexibility

Cycle Life

Pressure Rating

Chemical Resistance

Wall Thickness

Construction

Use:

High corrosive environment. Conpro is more suited to use in more arduous applications throughout the process plant industry. Polypropylene braid produces a low electrically conductive assembly.



Standards:

FDA Approved, Accepted by the U.S. Coast Guard, PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550

Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter | Wall Thickness | Outside Diameter (mm) | | Min. Bend Radius | Standard Max. Working Pressure | | Min. Burst Pressure | |
|-------------|--------|-------------------|----------------|-----------------------|-------|------------------|--------------------------------|-----|---------------------|-----|
| | | | | Tube | Braid | | kPa | bar | kPa | bar |
| CONPRO-12 | 1/2" | 11.6 | 0.89 | 13.38 | 21.4 | 50 | 1000 | 10 | 4000 | 40 |
| CONPRO-15 | 5/8" | 15.1 | 0.89 | 16.88 | 26.3 | 65 | 1000 | 10 | 4000 | 40 |
| CONPRO-20 | 3/4" | 19.5 | 1 | 21.5 | 31.1 | 55 | 1000 | 10 | 4000 | 40 |
| CONPRO-25 | 1" | 24.5 | 1.1 | 26.7 | 36.7 | 85 | 1000 | 10 | 4000 | 40 |
| CONPRO-32 | 1 1/4" | 31.5 | 1.15 | 33.80 | 44.4 | 100 | 1000 | 10 | 4000 | 40 |
| CONPRO-40 | 1 1/2" | 36.5 | 1.45 | 39.4 | 49.7 | 120 | 1000 | 10 | 4000 | 40 |
| CONPRO-45 | 1 3/4" | 44.5 | 1.45 | 47.40 | 58.3 | 135 | 1000 | 10 | 4000 | 40 |
| CONPRO-50 | 2" | 49.5 | 1.5 | 52.5 | 62.5 | 165 | 800 | 8 | 3200 | 32 |
| CONPRO-65 | 2 1/2" | 62.5 | 1.6 | 65.7 | 83.4 | 230 | 700 | 7 | 2800 | 28 |
| CONPRO-80 | 3" | 73.5 | 1.6 | 76.7 | 92.9 | 260 | 600 | 6 | 2400 | 24 |

Applications



PTFE Hose - PCTH

Chlorine Transfer PTFE

Part No.: PCTH

Construction: Convoluted

Profile: High Flexibility / Medium Pressure

Tube Available: PTFE Virgin Inner Tube with an intergal fibreglass cover

Braid Available: Two layers of Kynar reinforcement braid

Size Available: 1/2" - 1"

Temperature: -70°C to 260°C

Sintered/Permeation: Slow Sintered (medium level of permeation)

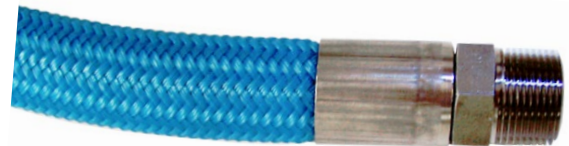
Low | Med | High

| | | | |
|---------------------|-----------------------|----------------------------------|----------------------------------|
| Flexibility | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| Cycle Life | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| Pressure Rating | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Chemical Resistance | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| Wall Thickness | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

Construction

Use:

It's the only hose that can adequately transfer chlorine in a safe manner. Exclusive design resists rugged handling and collapse.



Standards:

FDA Approved, Accepted by the U.S. Coast Guard, PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550 Chlorine Institute Pamphlet 6. Appendix A

Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter | Outside Diameter (mm) | Min. Bend Radius | Standard Max. Working Pressure | | Min. Burst Pressure | | |
|-------------|------|-------------------|-----------------------|------------------|--------------------------------|------|---------------------|-------|-----|
| | | | | | inch | mm | Braid | mm | kPa |
| PCTH-12 | 1/2" | 13.72 | 23.37 | 38 | | 3400 | 34 | 13000 | 138 |
| PCTH-25 | 1" | 26.54 | 35.20 | 152 | | 2600 | 26 | 12900 | 129 |

Alternative products:

Refer to Monel Metallic Hose - Page 44

Applications



1
2
3
4
5
6
7
8
9

PTFE HOSE



PTFE HOSE

PTFE Hose - PTFE-UHP-SILVERSSNAKE

PTFE Ultra High Pressure Gas Cylinder Hose

Part No.: PTFE-UHP-SILVERSSNAKE

Construction: Smoothbore

Profile: High Flexibility / High Pressure

Tube Available: PTFE Virgin / Anti-static Inner Tube

Cover: 2 Aramid braids and 1 high tensile 304 maypole wound stainless steel braid

Whip Restraints - Stainless steel anti whip restraint wire safety system

Size Available: 1/4"

Temperature: -60°C +260°C

Sintered/Permeation: Slow Sintered (medium level of permeation). 1/4, 3/8" and 1/2" are available in Post Sintered on request (example PTFE-UHP-xx-PS)

Low | Med | High

Flexibility

Cycle Life

Pressure Rating

Chemical Resistance

Wall Thickness

Construction

Use: The PTFE Ultra High Pressure Gas Cylinder Hose is the most advanced high-pressure hose on the market. It outperforms expectations with its exceptional routability, tight bend radius, and reduced outer diameter, making it ideal for high-pressure gas and fluid applications.

Standards:

- ISO 1402 – Rubber and plastic hose and assemblies – hydrostatic testing
- ISO 14113 - Gas and welding equipment - Rubber and Plastic Hoses assembled for compressed and liquefied up to a maximum design pressure of 450 bar.
- CGA E-9:2004 - Standard of flexible PTFE lined pigtails for compressed gas services.

Applications: Oxygen Cylinder, Argon Cylinder, Nitrogen Cylinder, Hydrogen Cylinder, Acetylene Cylinder

Standard Lengths: 600mm, 800mm, 1200mm, 1800mm, 2400mm, 3600mm (custom lengths available)



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | 0.85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter | Outside Diameter | Min. Bend Radius | Working Pressure | | Burst Pressure | |
|-------------|------|-------------------|------------------|------------------|------------------|-----|----------------|------|
| | inch | mm | mm | mm | kPa | bar | kPa | bar |
| PTFE-UHP-06 | 1/4" | 6.20 | 12.30 | 38 | 47500 | 475 | 190000 | 1900 |





PTFE HOSE

PTFE Hose - TEFLEX

Teflex Silicone Jacket PTFE

Part No.: TEFLEX

Construction: Smoothbore

Profile: High Flexibility / High Pressure

Tube Available: PTFE Virgin Inner Tube impregnated fiberglass braid

Braid Available: 304 / 316 Stainless Steel

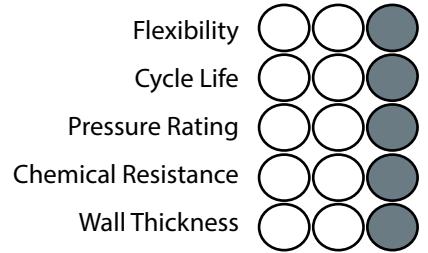
Cover: Silicone

Size Available: 1/4" - 1"

Temperature: -70°C +204°C

Sintered/Permeation: Slow Sintered (medium level of permeation)

Low | Med | High



Construction

Use:

Liquid food and beverage transfer, also suitable for air, water, chemical, oil and automotive applications
Hygienic food grade cover ideal for food and pharmaceutical applications.



Standards:

FDA Approved, Accepted by the U.S. Coast Guard,
PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550

Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Size | Internal Diameter | Outside Braid O.D. | Outside Jacket O.D. | Min. Bend Radius (Static) | Standard Max. Working Pressure | | Min. Burst Pressure | |
|----------------|------|-------------------|--------------------|---------------------|---------------------------|--------------------------------|-----|---------------------|-----|
| | inch | mm | mm | mm | mm | kPa | bar | kPa | bar |
| TEFLEX-SXX-06 | 1/4" | 6.22 | 11.81 | 14.61 | 44 | 22500 | 225 | 90000 | 900 |
| TEFLEX-SXX-10 | 3/8" | 9.14 | 14.86 | 17.65 | 70 | 20000 | 200 | 80000 | 800 |
| TEFLEX-SXX-12 | 1/2" | 12.50 | 18.21 | 21.01 | 108 | 11000 | 110 | 45000 | 450 |
| TEFLEX-SXX-15 | 5/8" | 15.50 | 21.94 | 24.99 | 140 | 10000 | 100 | 40000 | 400 |
| TEFLEX-SXX-20 | 3/4" | 18.80 | 24.74 | 27.79 | 178 | 8800 | 88 | 35000 | 350 |
| TEFLEX-SXX-25* | 1" | 25.40 | 33.66 | 38.74 | 292 | 6200 | 62 | 25000 | 250 |

* 1" Hose construction is PTFE Liner with double stainless steel Braid

Table Key :

Silicone Jacket Colour (SXX)

SRD = Red SBK = Black SBL = Blue SWH = White

Applications



1
2
3
4
5
6
7
8
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PTFE HOSE

PTFE Hose - RFEP

Rubber FEP Liner

Part No.: RFEP

Colour: Green / Yellow Labeling

Tube Available: FEP liner Smoothbore

Cover: Green EPDM rubber cover, covered and reinforced with multi-layered rubber

Reinforcement: Spiral-wound polyester cords and a double helix wire

Size Available: 1/2" - 4"

Temperature: -40°C +177°C

Vacuum Resistance: Full Vacuum

Sintered/Permeation: Slow Sintered (medium level of permeation)

Low | Med | High

Flexibility

Cycle Life

Pressure Rating

Chemical Resistance

Wall Thickness

Construction

Use:

Designed for extended use in hostile environments involving severe chemical, thermal, and mechanical stresses. Does not suffer aging or embrittlement, even with extreme thermal cycling.



Standards:

Pharmacopoeia Class VI, USDA, FDA-approved

Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| Part Number | Nominal Dia. | | Working pressure | | Vacuum Rating | Min Bend Radius | Weight Per Mtr |
|-------------|--------------|----------|------------------|-----|---------------|-----------------|----------------|
| | Inches | O.D (mm) | kPa | Bar | in. Hg | mm | Kg |
| RFEP-12 | 1/2" | 24.13 | 2413 | 24 | 29.9 | 67.31 | 0.15 |
| RFEP-20 | 3/4" | 31.75 | 2413 | 24 | 29.9 | 88.90 | 0.23 |
| RFEP-25 | 1" | 39.37 | 3102 | 31 | 29.9 | 101.60 | 0.32 |
| RFEP-32 | 1 1/4" | 44.45 | 2585 | 25 | 29.9 | 215.90 | 0.40 |
| RFEP-38 | 1 1/2" | 54.10 | 2585 | 24 | 29.9 | 266.70 | 0.44 |
| RFEP-50 | 2" | 68.07 | 2068 | 20 | 29.9 | 330.20 | 0.62 |
| RFEP-75 | 3" | 96.52 | 1723 | 17 | 29.9 | 533.40 | 1.15 |
| RFEP-100 | 4" | 127.00 | 1206 | 12 | 29.9 | 990.60 | 1.58 |
| RFEP-150 | 6" | 181.10 | 689 | 7 | 29.9 | 1473.20 | 2.15 |

Note: Fittings can be Encapsulated

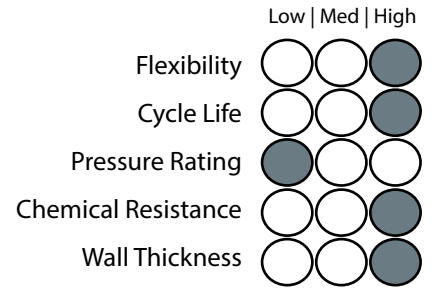
Applications



PTFE Hose - PTFEIT

PTFE Imperial Tubing

Part No.: PTFEIT
Construction: Smoothbore
Profile: High Flexibility / Low Pressure
Tube Available: PTFE Virgin Inner Tube
Metric Size Available: 2mm - 28mm I.D. (Larger sizes upon Request)
Imperial Size Available: 1/16" - 5/8" I.D. (Larger sizes upon Request)
Temperature: -70°C to 260°C
Lengths: 25m, 50m and 100m rolls
Sintered/Permeation: Slow Sintered (medium level of permeation)



Construction

Use:

PTFE provides the ultimate in lubricity, high temperature use, chemical resistance, biocompatibility and precision extruded tolerances. Food, Medical and chemical transfer applications.

Standards:

FDA Approved
 PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| IMPERIAL SIZES | | | | |
|----------------|------------------|-----------|-----------|--------------------|
| Part Number | Size O.D. x I.D. | O.D. (mm) | I.D. (mm) | Max Pressure (kPa) |
| PTFEIT-0201 | 1/8" x 1/16" | 3.175 | 1.5875 | 1034 |
| PTFEIT-0302 | 3/16" x 1/8" | 4.7625 | 3.175 | 1034 |
| PTFEIT-0403 | 1/4" x 3/16" | 6.35 | 4.7625 | 1034 |
| PTFEIT-0504 | 5/16" x 1/4" | 7.9375 | 6.35 | 1034 |
| PTFEIT-0604 | 3/8" x 1/4" | 9.525 | 6.35 | 1034 |
| PTFEIT-0605 | 3/8" x 5/16" | 9.525 | 7.9375 | 1034 |
| PTFEIT-0806 | 1/2" x 3/8" | 12.7 | 9.525 | 1034 |
| PTFEIT-1008 | 5/8" x 1/2" | 15.875 | 12.7 | 1034 |
| PTFEIT-1210 | 3/4" x 5/8" | 19.05 | 15.875 | 1034 |

Applications



1 2 3 4 5 6 7 8 9

PTFE HOSE



PTFE HOSE

PTFE Hose - PTFEMT

PTFE Metric Tubing

Part No.: PTFEMT

Construction: Smoothbore

Profile: High Flexibility / Low Pressure

Tube Available: PTFE Virgin Inner Tube

Metric Size Available: 2mm - 28mm I.D. (Larger sizes upon Request)

Imperial Size Available: 1/16" - 5/8" I.D. (Larger sizes upon Request)

Temperature: -70°C to 260°C

Lengths: 25m, 50m and 100m rolls

Sintered/Permeation: Slow Sintered (medium level of permeation)

| | Low | Med | High |
|---------------------|-----|-----|------|
| Flexibility | ○ | ○ | ● |
| Cycle Life | ○ | ○ | ● |
| Pressure Rating | ● | ○ | ○ |
| Chemical Resistance | ○ | ○ | ● |
| Wall Thickness | ○ | ○ | ● |

Construction

Use:

PTFE provides the ultimate in lubricity, high temperature use, chemical resistance, biocompatibility and precision extruded tolerances. Food, Medical and chemical transfer applications.

Standards:

FDA Approved

PTFE Perfluorocarbon Resins meets FDA 21 CFR 177.1550



Specifications

| Temperature Correction Factor | | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|------|------|-----|------|------|------|------|
| -60 | -40 | -20 | 0 | 20 | 50 | 100 | 120 | 150 | 180 | 200 | 220 | 250 | 260 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.93 | 0.93 | .85 | 0.85 | 0.77 | 0.77 | 0.70 |

| METRIC SIZES | | | |
|--------------|-----------|-----------|--------------------|
| Part Number | O.D. (mm) | I.D. (mm) | Max Pressure (kPa) |
| PTFEMT-0402 | 4 | 2 | 1034 |
| PTFEMT-0503 | 5 | 3 | 1034 |
| PTFEMT-0604 | 6 | 4 | 1034 |
| PTFEMT-0805 | 8 | 5 | 1034 |
| PTFEMT-0806 | 8 | 6 | 1034 |
| PTFEMT-1008 | 10 | 8 | 1034 |
| PTFEMT-1209 | 12 | 9 | 1034 |
| PTFEMT-1412 | 14 | 12 | 1034 |
| PTFEMT-1614 | 16 | 14 | 1034 |
| PTFEMT-2420 | 24 | 20 | 1034 |
| PTFEMT-3228 | 32 | 28 | 1034 |

Applications



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PTFE HOSE

PTFE Jacketed Hose

PTFE Jacketed Hose

A Jacketed assembly consists of a “hose within a hose.”

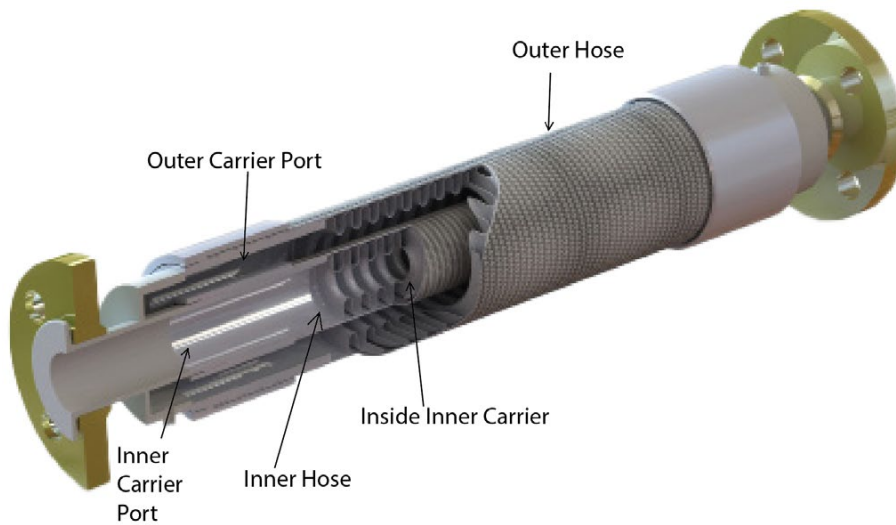
An inner or primary media conveying hose is enclosed or jacketed by a larger diameter hose. The hoses are joined at each end by specially designed fittings so that there is no media pathway between the two hoses.

Jacketed assemblies are often specified when the primary media must be kept at either an elevated or cryogenic temperature. Steam is often circulated through the jacket hose to keep a viscous material in the inner hose hot and easily conveyed. A vacuum can also be pulled on the jacket hose to insulate cryogenic liquids being conveyed in the inner hose.

The media typically is steam, hot oil or hot water to raise the temperature of the fluid moved in the internal hose. Also cold products such as liquid helium or nitrogen can be used to lower the temperature of the fluid with-in the internal hose.

Following Applications:

- Heated processes
- Rail car and tank truck loading/unloading
- Marine Transfer
- Flexible connections to vibrating equipment
- To relieve pump housing stresses
- Hazardous material piping system using an alarmed vacuum jacket
- Safety barrier for toxic processes
- Leak detection systems
- Liquified food transfer systems
- Chlorine transfer
- Cryogenics (fast freezing)



| | | | | | | | | | | | |
|-------------------------------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|
| Inner hose nb size | 6mm | 10mm | 12mm | 19mm | 25mm | 32mm | 38mm | 50mm | 65mm | 75mm | 100mm |
| Outer hose nb size | 12mm | 19mm | 19mm | 32mm | 38mm | 50mm | 65mm | 75mm | 100mm | 150mm | 150mm |
| Inner hose max pressure (kPa) | 18089 | 15513 | 10342 | 6900 | 4600 | 3400 | 3000 | 2300 | 1000 | 800 | 800 |