

PTFE

The superior chemically inert quality of Fluoropolymers, make **COMPOTEC® PTFE** hoses ideal for the transfer of a wide range of very hazardous chemicals. This universal hose can help eliminate the costly redundancy of inventory to maintain the various hose constructions usually required. **COMPOTEC® PTFE** assemblies are fitted with an extensive range of couplings that can also be PTFE tafted or treated with the exclusive **EPTAFLO BLUE** coating, resistant to almost all chemicals. **COMPOTEC® PTFE** hoses can be supplied in the **FIRETEC** version with ADR self-extinguish CL1 cover, and additional fire proof layers.

All **COMPOTEC®** hoses are available in 40 mt coils from 3/4" to 8" and 25 mt length up to 12". Outer cover is also available in **ELASTOTHANE®**, a special PU coated fabric; its UV, Ozone, Sunlight and weathering resistance, offers superior temperature and abrasion characteristics.

Electrical continuity is achieved by the two wires bonded to the end fittings, this helps dissipate accumulated charge and to avoid static flash. Upon request it's possible to manufacture **COMPOTEC® PTFE** hoses in accordance to the Directive 94/9/EC "ATEX", with a special outer antistatic black cover.

All **COMPOTEC® PTFE** hoses are 100% Antistatic - Electrically continuous, meets the PED, EN, CE, AS, U.S. Coast Guard requirements, NAHAD Guidelines, are Lloyds and DNV approved and ATEX certificate can be released on request.

Heavy Duty **PTFE 300 HD**, is offered in two versions, the first using as inner layer in contact with the product, a pure **Skived film of PTFE**, the second is manufactured around the new **NANOTEC® TEFLON®** film **PATENTED BY MATEC**.

PTFE 300 HD

Applications: **PTFE 300 HD**, Heavy Duty construction for aggressive chemicals Suction & Delivery. Used for Ship to Shore and Ship to Ship, Docksides and in general for the most arduous Industrial and Marine applications.

Construction: **COMPOTEC® PTFE 300 HD** is a multi-layer thermoplastic hose designed to resist to the most aggressive chemicals. Includes in the construction an FEP tubular extruded film to avoid any possible leak and guarantee a gas-tight construction. All the different layers are wrapped together and tensioned between internal and external wire spirals.

PTFE 300 HD-NANOTEC INSIDE

(Patent N° IT0281052)

NANOTEC® is obtained with the latest and highest standard of Nanotechnology, ensuring unique mechanical strength and ZERO porosity. **NANOTEC®** is a flexible, tear resistant material with superior capabilities compared to other PTFE products. **NANOTEC®** is made of 100% TEFLON® Du Pont, making it impervious to "chemical attack" and eliminating the need for reinforcements. Regardless of the chemical environment **NANOTEC®** retains all of its physical properties. Using an innovative nanotechnology cross-lamination process, results in **NANOTEC®** having an incredible 360° tear strength, superb durability and operating temps of up to 316°C (600°F).

The **NANOTEC®** technology is a **PATENTED DESIGN** exclusive and unique, belonging to **MATEC® GROUP**.

CHEMCHLOR 900HD-NANOTEC INSIDE

(Patent Design)

Applications: **CHEMCHLOR 900** is a specific hose designed for very aggressive chemicals. It is used in such applications as transfer of all the Chlorine derivatives, **Hydrochloric acid, Nitric and Sulphuric acid**. Heavy Duty construction, can be used in general for the most arduous Industrial and Marine applications.

Construction: Inner first layer in contact with the wet parts, is made with the unique **NANOTEC® TEFLON®** film, **PATENTED BY MATEC**, ensuring the highest mechanical strength, ZERO porosity and superior chemical inertness. Internal wire is made in Stainless Steel 1.4307, sheathed in a white PVDF high wall thickness material. Includes in the construction an **FEP** seamless tubular extruded film, to avoid any possible leak and guarantee a gas-tight construction.

PTFE SD - STANDARD DUTY

Applications: General purpose Standard Duty hose suitable for the safe transfer of a wide variety of Chemicals under suction or pressure where the chemical resistance of polypropylene is inadequate. Commonly used for loading and unloading of road and rail tankers, storage tank and in-plant applications.

Construction: Inner first layer in contact with the fluid is made with **ECTFE** films. High strength polypropylene films and fabrics, high density polyethylene films reinforcement, Polyvinyl coated polyester fabric cover, fire resistant, abrasion, weather and ozone resistant.



Lloyds Register

Type approved

www.lr.org

HEAVY DUTY PTFE SUCTION & DISCHARGE HOSE EN 13765:2015 TYPE 3

| Size | | Working Pressure Bar / PSI | | Bend Radius EN ISO 1746 | Weight | Maximum Length |
|-------|--------|----------------------------|----------|-------------------------|----------|----------------|
| mm | Inch | SF 4:1 | SF 5:1 | mm | Kg. / mt | Mt. |
| 20 | 3/4" | 20 / 300 | 16 / 230 | 75 | 0,63 | 40 |
| 25 | 1" | 20 / 300 | 16 / 230 | 100 | 0,77 | 40 |
| 32 | 1 1/4" | 20 / 300 | 16 / 230 | 125 | 1,05 | 40 |
| 40 | 1 1/2" | 20 / 300 | 16 / 230 | 140 | 1,33 | 40 |
| 50 | 2" | 20 / 300 | 16 / 230 | 180 | 2,04 | 40 |
| 65 | 2 1/2" | 20 / 300 | 16 / 230 | 220 | 2,75 | 40 |
| 75/80 | 3" | 20 / 300 | 16 / 230 | 280 | 3,15 | 40 |
| 100 | 4" | 20 / 300 | 16 / 230 | 400 | 4,74 | 40 |
| 125 | 5" | 20 / 300 | 16 / 230 | 485 | 7,50 | 40 |
| 150 | 6" | 20 / 300 | 16 / 230 | 550 | 10,50 | 40 |
| 200 | 8" | 20 / 300 | 16 / 230 | 800 | 12,85 | 40 |
| 250 | 10" | 20 / 300 | 16 / 230 | 1000 | 20,96 | 25 |
| 300 | 12" | 20 / 300 | 16 / 230 | 1200 | 31,69 | 25 |

PTFE 300 HD

PTFE 300 HD NANOTEC INSIDE

| Code | PTFE 300HD XZ | PTFE 300HD XX |
|---------------------|---------------------------------|-----------------|
| Applications | Heavy Duty aggressive chemicals | liquid transfer |
| Colour | Red | |
| Temperature | -40 +100°C | |
| Inner wire | Stainless Steel | Stainless Steel |
| Outer wire | Galvanized Steel | Stainless Steel |

| Code | NANOTEC HD XZ | NANOTEC HD XX |
|---------------------|---------------------------------|-----------------|
| Applications | Heavy Duty aggressive chemicals | liquid transfer |
| Colour | Red | |
| Temperature | -40 +125°C | |
| Inner wire | Stainless Steel | Stainless Steel |
| Outer wire | Galvanized Steel | Stainless Steel |

HIGHLY AGGRESSIVE / HEAVY DUTY SUCTION & DISCHARGE HOSE EN 13765:2015 TYPE 3

| Size | | Working Pressure Bar / PSI | | Bend Radius EN ISO 1746 | Weight | Maximum Length |
|-------|--------|----------------------------|----------|-------------------------|----------|----------------|
| mm | Inch | SF 4:1 | SF 5:1 | mm | Kg. / mt | Mt. |
| 20 | 3/4" | 20 / 300 | 16 / 230 | 75 | 0,63 | 40 |
| 25 | 1" | 20 / 300 | 16 / 230 | 100 | 0,77 | 40 |
| 32 | 1 1/4" | 20 / 300 | 16 / 230 | 125 | 1,05 | 40 |
| 40 | 1 1/2" | 20 / 300 | 16 / 230 | 140 | 1,33 | 40 |
| 50 | 2" | 20 / 300 | 16 / 230 | 180 | 2,04 | 40 |
| 65 | 2 1/2" | 20 / 300 | 16 / 230 | 220 | 2,75 | 40 |
| 75/80 | 3" | 20 / 300 | 16 / 230 | 180 | 3,15 | 40 |
| 100 | 4" | 20 / 300 | 16 / 230 | 400 | 4,74 | 40 |
| 125 | 5" | 20 / 300 | 16 / 230 | 485 | 7,50 | 40 |
| 150 | 6" | 20 / 300 | 16 / 230 | 575 | 10,00 | 40 |
| 200 | 8" | 20 / 300 | 16 / 230 | 800 | 12,85 | 40 |
| 250 | 10" | 20 / 300 | 16 / 230 | 1000 | 20,96 | 25 |
| 300 | 12" | 20 / 300 | 16 / 230 | 1200 | 31,69 | 25 |

CHEMCHLOR 900 HD NANOTEC INSIDE

| Code | CHEMCHLOR 900HD FX | CHEMCHLOR 900HD FP |
|---------------------|--|-----------------------------|
| Applications | Heavy Duty, highly aggressive chemical | transfer |
| Colour | Yellow / Purple | |
| Temperature | -40 +125°C | |
| Inner wire | PVDF Coated Stainless Steel | PVDF Coated Stainless Steel |
| Outer wire | Stainless Steel | PP Coated Steel |

STANDARD DUTY PTFE SUCTION & DISCHARGE HOSE EN 13765:2015 TYPE 2

| Size | | Working Pressure Bar / PSI | | Bend Radius EN ISO 1746 | Weight | Maximum Length |
|-------|--------|----------------------------|----------|-------------------------|----------|----------------|
| mm | Inch | SF 4:1 | SF 5:1 | mm | Kg. / mt | Mt. |
| 40 | 1 1/2" | 14 / 200 | 10 / 150 | 100 | 1,04 | 40 |
| 50 | 2" | 14 / 200 | 10 / 150 | 150 | 1,56 | 40 |
| 65 | 2 1/2" | 14 / 200 | 10 / 150 | 200 | 1,87 | 40 |
| 75/80 | 3" | 14 / 200 | 10 / 150 | 250 | 2,23 | 40 |
| 100 | 4" | 14 / 200 | 10 / 150 | 300 | 3,62 | 40 |
| 125 | 5" | 14 / 200 | 10 / 150 | 400 | 6,85 | 40 |
| 150 | 6" | 14 / 200 | 10 / 150 | 500 | 8,91 | 40 |
| 200 | 8" | 14 / 200 | 10 / 150 | 740 | 11,16 | 40 |

PTFE SD ECTFE INSIDE

| Code | PTFE SD XZ | PTFE SD XX |
|---------------------|-----------------------------------|-----------------|
| Applications | Standard Duty aggressive chemical | liquid transfer |
| Colour | Red | |
| Temperature | -30 +80°C | |
| Inner wire | Stainless Steel | Stainless Steel |
| Outer wire | Galvanized Steel | Stainless Steel |



AGGRESSIVE CHEMICALS PTFE

DNV Det Norske Veritas Cert. n. CERT-04193-99-AQ IND-SINCERT
 EN 13765:2015, approved from CEN
 Directive 2014/68/EU "PED" with operating Procedures certified from DNV - CE PED 117361-2012-CE-ITA-ACCREDIA
 Directive 94/9/CE "ATEX" hose for explosive atmospheres, Cert. held by DNV Rec. nr. CE ATE 08.0117.06/2617 - (AS 2430.1-1987)
 AS 2683-2000 (Hose & hose assemblies for distribution of petroleum and petroleum products)
 AS 2117-1991 (Hose & hose assemblies for petroleum and petroleum products - Marine suction and discharge)
 NAHAD Guidelines (NAHAD 600/2005)

Test procedures:

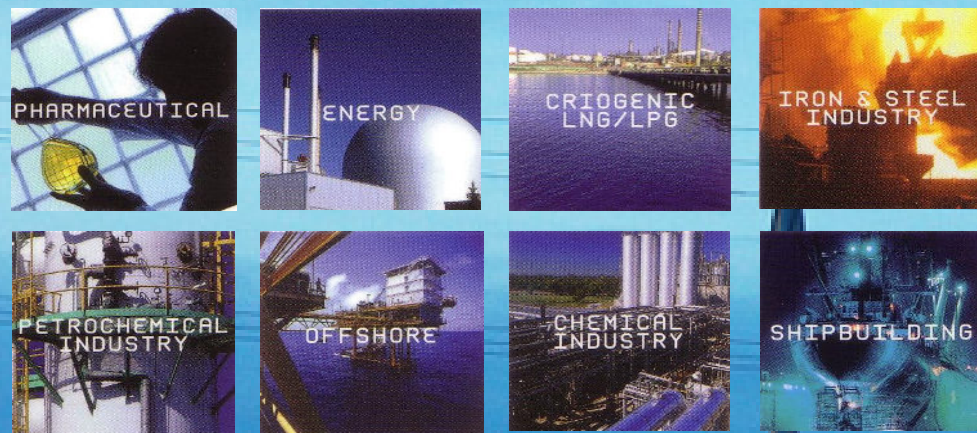
EN ISO 1402 - EN 8031
 AS1180.5-1999 (method 5)
 AS 1180.13B (Electrical resistance)
 AS1180.13C (Electrical continuity)

Type Approval

Lloyd's Register Type Approved - Cert. N° 13/00002
 DNV - Det Norske Veritas - Type Approval Cert. N° P-12369
 RINA - Registro Italiano Navale - Cert. N° MAC/81398/1/TO/99
 Russian Maritime Register of Shipping
 IBC Code Chapter 5 - Ship's Cargo hoses
 IMO Chemical Carrier Code - Paragraphs 2:12 and 5:7

Welding Process

in according to EN 15608:2005 - EN 439:1996 - EN 15614-1:2005 - EN 9606-1:2013
 EN 6848:2005 - EN 12072:2001 certified by DNV - Det Norske Veritas
 in according to ASME IX certified by RINA



COMPANY WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV GL
 = ISO 9001 =



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