

# 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 trafted 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.



### 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
<b>Applications</b>	Heavy Duty aggressive chemicals	liquid transfer
<b>Colour</b>	Red	
<b>Temperature</b>	-40 +100°C	
<b>Inner wire</b>	Stainless Steel	Stainless Steel
<b>Outer wire</b>	Galvanized Steel	Stainless Steel

Code	NANOTEC HD XZ	NANOTEC HD XX
<b>Applications</b>	Heavy Duty aggressive chemicals	liquid transfer
<b>Colour</b>	Red	
<b>Temperature</b>	-40 +125°C	
<b>Inner wire</b>	Stainless Steel	Stainless Steel
<b>Outer wire</b>	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
<b>Applications</b>	Heavy Duty, highly aggressive chemical	transfer
<b>Colour</b>	Yellow / Purple	
<b>Temperature</b>	-40 +125°C	
<b>Inner wire</b>	PVDF Coated Stainless Steel	PVDF Coated Stainless Steel
<b>Outer wire</b>	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
<b>Applications</b>	Standard Duty aggressive chemical	liquid transfer
<b>Colour</b>	Red	
<b>Temperature</b>	-30 +80°C	
<b>Inner wire</b>	Stainless Steel	Stainless Steel
<b>Outer wire</b>	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:

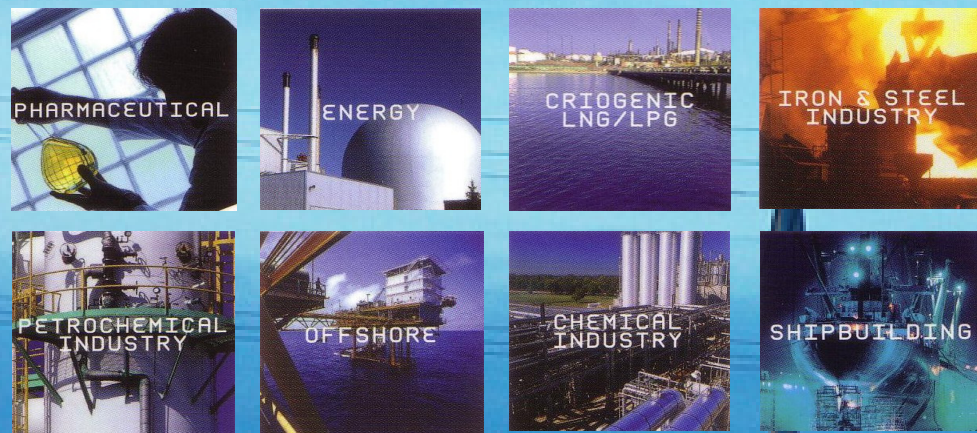
EN ISO 1402 - EN 8031  
AS1180.5-1999 (method 5)  
AS 1180.13B (Electrical resistance)  
AS1180.13C (Electrical continuity)

#### 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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# COMPOTEC®