

# 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 **EPTAFILON BLUE** coating, resistant to almost all chemicals. **COMPOTEC® PTFE** hoses can be supplied in the **FIRETEC** version with ADR self-extinguish CL1 cover.

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 **ELASTAR**, 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. The electric resistance of hose assemblies is less than 1 ohm/mt, as required by EN ISO 8031:2009 - 4.7. 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 Lloyd's 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, Dockside 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 Design)

**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. **PTFE SD**, the Standard Duty hose has a WP of 10 Bar and a W.T. from -30 to +80°C

# COMPOTEC®



## HEAVY DUTY PTFE SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 3

Size		Maximum W.P.		Safety Factor	Bend Radius EN ISO 1746		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.		mm	Inch	Kg. / mt	Mt.	Feet	
20	3/4"	15	200	5:1	75	3	0,63	40	132	
25	1"	15	200	5:1	100	4	0,77	40	132	
32	1 1/4"	15	200	5:1	125	5	1,05	40	132	
40	1 1/2"	15	200	5:1	140	5 1/2	1,33	40	132	
50	2"	15	200	5:1	180	7	2,04	40	132	
65	2 1/2"	15	200	5:1	220	8,5	2,75	40	132	
75/80	3"	15	200	5:1	180	11	3,15	40	132	
100	4"	15	200	5:1	400	16	4,74	40	132	
150	6"	15	200	5:1	550	22	10,50	40	132	
200	8"	15	200	5:1	800	32	12,85	40	132	
250	10"	15	200	5:1	1000	40	20,96	25	82	
300	12"	15	200	5:1	1200	48	31,69	25	82	

## 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 13765:2010 TYPE 3

Size		Maximum W.P.		Safety Factor	Bend Radius EN ISO 1746		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.		mm	Inch	Kg. / mt	Mt.	Feet	
20	3/4"	20	300	5:1	75	3	0,63	40	132	
25	1"	20	300	5:1	100	4	0,77	40	132	
32	1 1/4"	20	300	5:1	125	5	1,05	40	132	
40	1 1/2"	20	300	5:1	140	5 1/2	1,33	40	132	
50	2"	20	300	5:1	180	7	2,04	40	132	
65	2 1/2"	20	300	5:1	220	8,5	2,75	40	132	
75/80	3"	20	300	5:1	180	11	3,15	40	132	
100	4"	20	300	5:1	400	16	4,74	40	132	
150	6"	20	300	5:1	575	23	10,00	40	132	
200	8"	20	300	5:1	800	32	12,85	40	132	
250	10"	20	300	5:1	1000	40	20,96	25	82	
300	12"	20	300	5:1	1200	48	31,69	25	82	

## 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 13765:2010 TYPE 2

Size		Maximum W.P.		Safety Factor	Bend Radius EN ISO 1746		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.		mm	Inch	Kg. / mt	Mt.	Feet	
40	1 1/2"	10	150	5:1	100	4	1,04	40	132	
50	2"	10	150	5:1	150	6	1,56	40	132	
65	2 1/2"	10	150	5:1	200	8	1,87	40	132	
75/80	3"	10	150	5:1	250	10	2,23	40	132	
100	4"	10	150	5:1	300	12	3,62	40	132	
150	6"	10	150	5:1	500	20	8,91	40	132	
200	8"	10	150	5:1	740	29	11,16	40	132	

## 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

