

CHEMICALS - CHEM



COMPOTEC® is a multi-layer thermoplastic hose manufactured from Polypropylene, Polyethylene and Polyester films and Polypropylene fabrics, with a weather-proof and abrasion resistant outer cover made of Polymeric coated Polyester fabric. 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.

All the different layers are wrapped together and tensioned between internal and external wire spirals. This enables our product to meet the requirement of the Petrol-chemical industry and those of the Oil & Gas industry.

COMPOTEC® assemblies are fitted with an extensive range of couplings readily available, externally swaged with crimping ferrules.

COMPOTEC® assemblies are tested at 1 1/2 times rated working pressures for safety and reliability, in accordance with EN ISO 1402 (BS 5842:1980 clause 6.4). The securing ferrule, at one end of the hose, is permanently marked by engraving, with manufacturer's name, nominal bore, the hose assembly serial number and the test date. The marking of hose assemblies is made in compliance with PED Directive (97/23/CE). Full test certification can be supplied on request. **COMPOTEC®** hoses can be supplied in the **FIRETEC** version with ADR self-extinguish CL1 cover.

Burst pressure indicated, is at ambient temperature when tested in accordance with EN ISO 1402 (BS 5173 section 102.10:1990).

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 10 ohms, as required by EN ISO 8031 (BS 5842:1980 clause 6.2). Upon request it's possible to manufacture **COMPOTEC®** hoses in accordance to the Directive 94/9/EC "ATEX", with a special outer anti-static black cover, ground connection cable, for explosive environment.

COMPOTEC® CHEM 700 HD and **CHEM SD** are chemically compatible and mechanically engineered to handle a wide range of hazardous chemicals. Extremely flexible, easy to handle and bend, All hoses are 100% aromatic resistant, antistatic and can be used for suction or discharge. Vacuum rating is 0,9 bar, according to the EN ISO 7233 method B.



CHEM 700 HD - HEAVY DUTY

Applications: Heavy Duty construction for the transfer of a wide range of chemicals under suction or pressure. Used for black oils and heavier lubricating products, Ship to Shore and Ship to Ship, Dockside and in general for the most arduous Industrial and Marine applications.

Construction: High strength polypropylene and polyester films and fabrics, high density polyethylene films reinforcement, includes in the construction an High Density UHMW PLT seamless tubular extruded film, to avoid any possible leak and guarantee a gas-tight construction, Vinyl coated polyester fabric cover, weather and ozone resistant. Available in 40 mt coils from 3/4" to 8" and 25 mt length up to 12".

COMPOTEC® CHEM 700 HD hose assemblies are certified by DNV as complying the requirements of CE Directive 97/23 "PED" and are manufactured in accordance with the requirements of Paragraphs 2:12 and 5:7 of the IMO Chemical Carrier Code. CHEM 700 HD hoses are Type approved by Lloyd's with Certificate n° 13/002

CHEM SD - STANDARD DUTY

Applications: General purpose Standard Duty hose suitable for the safe transfer of a wide variety of Chemicals under suction or pressure. Commonly used for loading and unloading of road and rail tankers, storage tank and in-plant applications. Suitable as flexible hose for Top Loading arms. Available in 40 mt coils from 1 1/2" up to 8".

Construction: High strength polypropylene films and fabrics, high density polyethylene films reinforcement, Vinyl coated polyester fabric cover, weather and ozone resistant.

VAPORCHEM – LIGHT DUTY

Applications: General purpose Light Duty hose, is ideal for use for petrochemical vapor recovery systems in ship to shore, bottom loading and tank truck operations. Complies with USCG Marine Vapour control system 33CFR Part 154.810

All **COMPOTEC®** hoses are 100% Antistatic - Electrically continuous, meets the 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 CHEMICAL SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 3

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

CHEM 700 HD

Code	CHEM 700HD PZ	CHEM 700HD PX	CHEM 700HD XZ	CHEM 700HD XX
Applications	Heavy Duty Chemicals/Solvents liquid transfer			
Colour	Green			
Temperature	-40 +100°C			
Inner wire	PP Coated Steel	PP Coated Steel	St.Steel	St.Steel
Outer wire	Galv.Steel	St.Steel	Galv.Steel	St.Steel



STANDARD DUTY CHEMICAL SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 2

Size		Max. W.P.		Safety factor	Bend Radius EN ISO 1746		Weight Kg/mt
mm	inch	Bar	Psi		mm	inch	
40	1 1/2"	10	150	5:1	100	4	1,04
50	2"	10	150	5:1	150	6	1,56
65	2 1/2"	10	150	5:1	200	8	1,87
75/80	3"	10	150	5:1	250	10	2,23
100	4"	10	150	5:1	300	12	3,62
150	6"	10	150	5:1	500	20	8,91
200	8"	10	150	5:1	740	29	11,16

CHEM SD

Code	CHEM SD PZ	CHEM SD PX	CHEM SD XZ	CHEM SD XX
Applications	Standard Duty Chemicals/Solvents liquid transfer			
Colour	Green			
Temperature	-30 +80°C			
Inner wire	PP Coated Steel	PP Coated Steel	St.Steel	St.Steel
Outer wire	Galv.Steel	St.Steel	Galv.Steel	St.Steel

LIGHT WEIGHT CHEMICAL SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 1

Size		Max. W.P.		Vacuum rating	Safety factor	Bend Radius EN ISO 1746		Weight Kg/mt
mm	inch	Bar	Bar			mm	inch	
40	1 1/2"	5	0,7	4:1	100	4	1,01	
50	2"	5	0,7	4:1	150	6	1,33	
65	2 1/2"	5	0,7	4:1	200	8	1,85	
75/80	3"	5	0,7	4:1	250	10	2,13	
100	4"	5	0,7	4:1	300	12	2,97	
150	6"	5	0,7	4:1	500	20	6,83	
200	8"	5	0,7	4:1	740	29	9,91	
250	10"	5	0,7	4:1	1000	40	14,79	
300	12"	5	0,7	4:1	1200	48	19,96	

VAPORCHEM LD

Code	VAPORCHEM PZ	VAPORCHEM PX	VAPORCHEM XZ	VAPORCHEM XX
Applications	Light Duty Chemicals/Solvents Vapours			
Colour	Yellow			
Temperature	-30 +80°C			
Inner wire	PP Coated Steel	PP Coated Steel	St.Steel	St.Steel
Outer wire	Galv.Steel	St.Steel	Galv.Steel	St.Steel

CHEMICALS

DNV Det Norske Veritas Cert. n. CERT-04193-99-AQ IND-SINCERT
 EN 13765:2010, approved from CEN
 Directive 97/23/CE "PED" with operating Procedures certified from DNV - CE PED 07.0056.06/2585
 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)
 BS 5842:1980 (Conf. 1986)
 BS 3492:1987
 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:

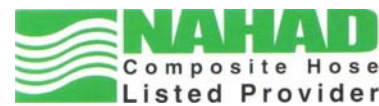
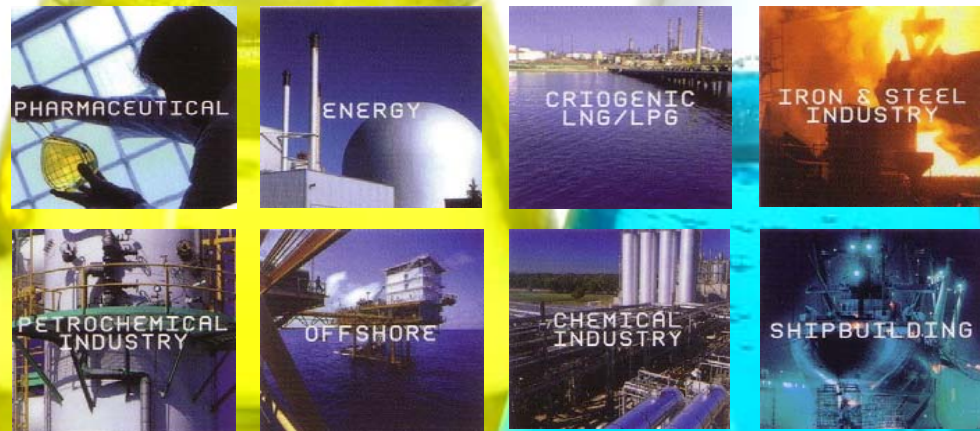
BS 5173-102.10:1990 section 102.10 - (EN ISO 1402)
 AS1180.5-1999 (method 5)
 AS 1180.13B (Electrical resistance)
 AS1180.13C (Electrical continuity)

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 6848:2005 - EN 12072:2001 certified by DNV - Det Norske Veritas
 in according to ASME IX certified by RINA



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COMPOTEC®