

CHEM

COMPOTEC® CHEM is a multi-layer thermoplastic hose manufactured from Poly-propylene, Polyethylene and Polyester films and Polypropylene fabrics, with a weather-proof and abrasion resistant outer cover made of Polyvinyl coated Polyester fabric. 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. 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® CHEM** assemblies are fitted with an extensive range of couplings readily available, externally swaged with crimping ferrules.

COMPOTEC® CHEM 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® CHEM 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 1 ohm/mt as required by EN ISO 8031:2009 – 4.7. Upon request it's possible to manufacture **COMPOTEC® CHEM** hoses in accordance to the Directive 94/9/EC **“ATEX”**, with a special outer antistatic black cover and 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 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, PolivinyI (or **ELASTOTHANE®** upon request) coated polyester cover fabric, 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 D N V as complying the requirements of CE Directive 97/23 “PED” and are manufactured in accordance with the requirements of Par. 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 terminal 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 film reinforcements, Polyvinyl coated polyester fabric cover, weather and ozone resistant.

VAPORCHEM LD - LIGHT DUTY

Applications: General purpose Light Duty hose, is ideal for use for petrochemical vapor recovery systems in Ship to Shore, Ship to Ship, 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 Lloyds and DNV approved and ATEX certificate can be released on request.



COMPOTEC®



HEAVY DUTY CHEMICAL 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	280	11	3,15	40	132
100	4"	15	200	5:1	400	16	4,74	40	132
150	6"	15	200	5:1	575	23	10,00	40	132
200	8"	15	200	5:1	800	32	12,85	40	132
250	10"	15	200	5:1	1000	40	23,85	25	82
300	12"	15	200	5:1	1200	48	31,69	25	82

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		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

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 DUTY CHEMICAL VAPOURS SUCTION AND DISCHARGE HOSE EN 13765:2010 TYPE 1

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"	5	0,7	4:1	100	4	1,01	40	132
50	2"	5	0,7	4:1	150	6	1,33	40	132
65	2 1/2"	5	0,7	4:1	200	8	1,85	40	132
75/80	3"	5	0,7	4:1	250	10	2,13	40	132
100	4"	5	0,7	4:1	300	12	2,97	40	132
150	6"	5	0,7	4:1	500	20	6,83	40	132
200	8"	5	0,7	4:1	740	29	9,91	40	132
250	10"	5	0,7	4:1	1000	40	14,79	25	82
300	12"	5	0,7	4:1	1200	48	19,96	25	82

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

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:

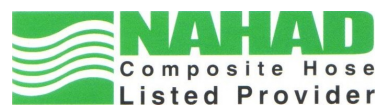
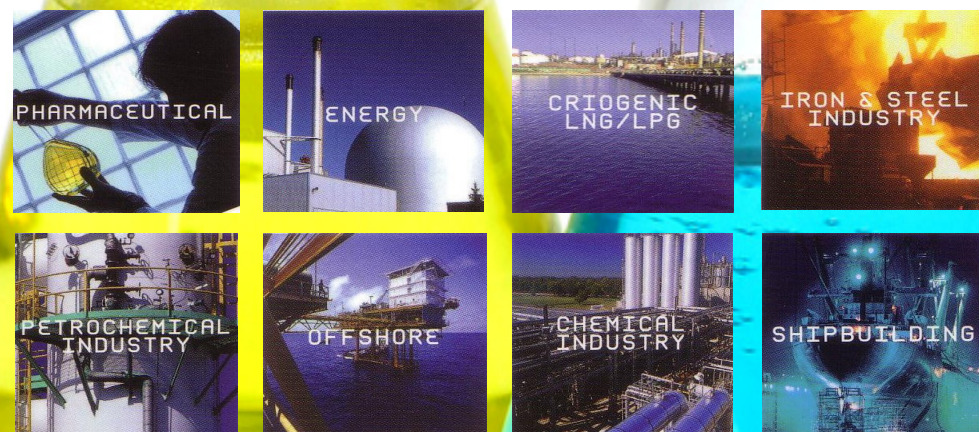
BS 5173-102.10:1990 section 102.10 - (EN ISO 1402)
AS1180.5-1999 (method 5)
AS 1180.13B (Electrical resistance)
AS1180.13C (Electrical continuity)

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



MATEC GROUP SRL
VIA I MAGGIO, 7 - PESCHIERA BORROMEO (MILANO) - ITALIA
Tel. +39 02 55 30 17 88 - Fax +39 02 54 72 158
matec@matecgroup.com
www.matecgroup.com

CHEMICALS



COMPOTEC®