

# CHEM

**COMPOTEC® CHEM** 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 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 Petrochemical 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. 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 and additional fireproof layers. Burst pressure indicated, is at ambient temperature when tested in accordance with EN ISO 1402.

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® 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, Polyvinyl coated polyester cover fabric, (or **ELASTOTHANE®** upon request) 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 Lloyd's and DNV approved and ATEX certificate can be released on request.



# COMPOTEC®



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

Size		Working Pressure Bar / PSI		Bend Radius EN ISO 1746	Weight		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	7,25	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	23,85	25	
300	12"	20 / 300	16 / 230	1200	31,69	25	

## 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 13765:2015 TYPE 2

Size		Working Pressure Bar / PSI		Bend Radius EN ISO 1746	Weight		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	401	5,40	40	
150	6"	14 / 200	10 / 150	500	8,91	40	
200	8"	14 / 200	10 / 150	740	11,16	40	

## 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 13765:2015 TYPE 1

Size		Maximum W.P.		Vacuum rating	Bend Radius EN ISO 1746	Weight		Maximum Length
mm	Inch	Bar	P.S.I.	Bar	mm	Kg. / mt	Mt.	
40	1 1/2"	5	70	0,7	100	1,01	40	
50	2"	5	70	0,7	150	1,33	40	
65	2 1/2"	5	70	0,7	200	1,85	40	
75/80	3"	5	70	0,7	250	2,13	40	
100	4"	5	70	0,7	300	2,97	40	
125	5"	5	70	0,7	400	5,25	40	
150	6"	5	70	0,7	500	6,83	40	
200	8"	5	70	0,7	740	9,91	40	
250	10"	5	70	0,7	1000	14,79	25	
300	12"	5	70	0,7	1200	19,96	25	

## 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 13765:2015, 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)

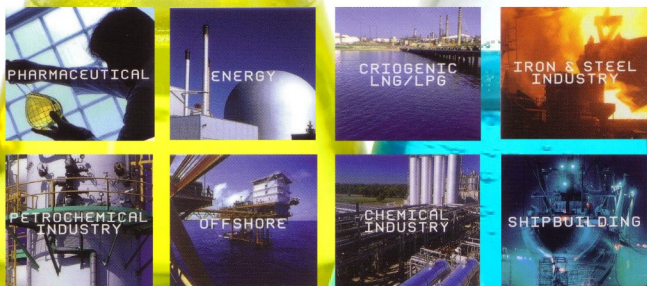
#### Type Approval

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

# CHEMICALS



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



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