

**CHEMICALS**



**COMPOTEC®**



# CHEMICALS

**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 tank truck 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 BS 5842:1980 clause 6.4 (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®** hoses can be supplied in the **FIRETEC** version with ADR self-extinguish CL2 cover.

Burst pressure indicated, is at ambient temperature when tested in accordance with BS 5173 section 102.10:1990. (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. The electric resistance of hose assemblies is less than 10 ohms, as required by BS 5842:1980 clause 6.2 (EN ISO 8031). Upon request it's possible to manufacture **COMPOTEC®** hoses in accordance to the Directive 94/9/EC "ATEX", with a special outer antistatic black cover.

**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, Vinyl coated polyester fabric cover, fire resistant, abrasion, 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 Paragraphs 2:12 and 5:7 of the IMO Chemical Carrier Code

## **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 3/4" up to 8".

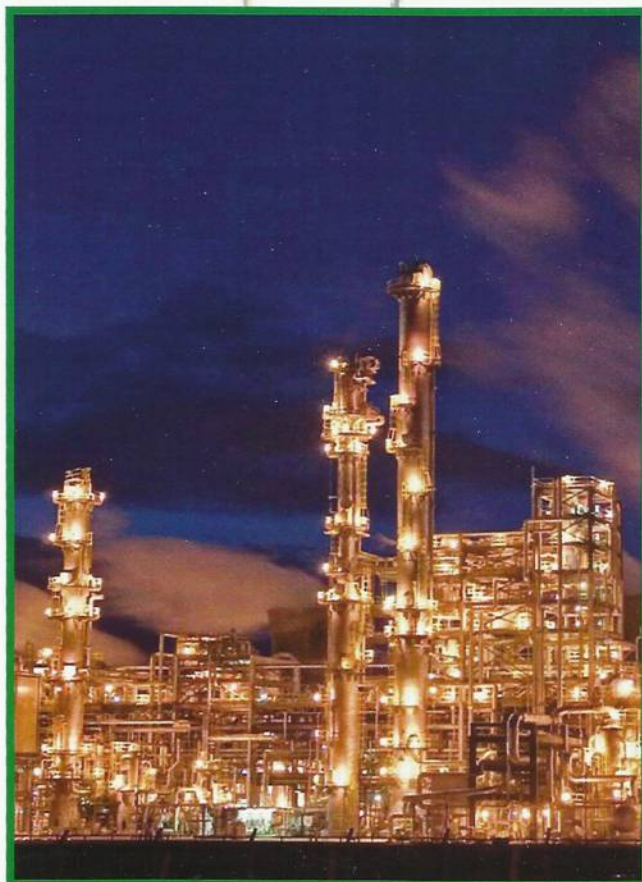
**Construction:** High strength polypropylene films and fabrics, high density polyethylene films reinforcement, Vinyl coated polyester fabric cover, fire resistant, abrasion, weather and ozone resistant.

## **LIGHT WEIGHT CHEM LD - VAPOUR RECOVERY HOSE**

**Applications:** General purpose Light Duty hose is ideal for use in petrochemical vapor recovery systems. It's commonly used in vapour return lines in tank truck operations. Complies with USCG Marine Vapour control system 33CFR Part 154.810

100% Antistatic- Electrically continuous

Meets EN, CE, U.S. Coast Guard requirements, NAHAD Guidelines, DNV Approved. ATEX on request.







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

Size		Maximum W.P.		Safety	Bend Radius (ENISO1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.	Factor	mm	Inch	Kg. / mt	Mt.	Feet	
20	¾"	15	200	5:1	75	3	0,67	40	132	
25	1"	15	200	5:1	100	4	0,81	40	132	
32	1 ¼"	15	200	5:1	125	5	1,05	40	132	
40	1 ½"	15	200	5:1	140	5 1/2	1,33	40	132	
50	2"	15	200	5:1	180	7	2,03	40	132	
65	2 ½"	15	200	5:1	220	8,5	2,69	40	132	
75/80	3"	15	200	5:1	280	11	3,08	40	132	
100	4"	15	200	5:1	400	16	4,66	40	132	
150	6"	15	200	5:1	575	23	9,66	40	132	
200	8"	15	200	5:1	800	32	13,35	40	132	
250	10"	15	200	5:1	1000	40	21,08	25	82	
300	12"	15	200	5:1	1200	48	31,48	25	82	

#### CHEM 700 HD

Code	CHEM 700HD PZ	CHEM 700HD PX	CHEM 700HD XZ	CHEM 700HD XX
Applications	Chemicals / Solvents Liquids			
Colour	Green / Black			
Temperatures	-40 + 100°C			
Inner wire	PP Coat. Steel	PP Coated Steel	Stainless Steel	Stainless Steel
Outer wire	Galv. Steel	Stainless Steel	Galv. Steel	Stainless Steel

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

Size		Maximum W.P.		Safety	Bend Radius (ENISO1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.	Factor	mm	Inch	Kg. / mt	Mt.	Feet	
25	1"	10	150	5:1	75	3	0,78	40	132	
32	1 ¼"	10	150	5:1	80	3	0,88	40	132	
40	1 ½"	10	150	5:1	100	4	1,02	40	132	
50	2"	10	150	5:1	150	6	1,52	40	132	
65	2 ½"	10	150	5:1	200	8	2	40	132	
75/80	3"	10	150	5:1	250	10	2,5	40	132	
100	4"	10	150	5:1	300	12	3,54	40	132	
150	6"	10	150	5:1	500	20	8,67	40	132	
200	8"	10	150	5:1	740	29	11,43	40	132	

#### CHEM SD

Code	CHEM SD PZ	CHEM SD PX	CHEM SD XZ	CHEM SD XX
Applications	Chemicals / Solvents Liquids			
Colour	Green			
Temperatures	-30 + 80°C			
Inner wire	PP Coat. Steel	PP Coated Steel	Stainless Steel	Stainless Steel
Outer wire	Galv. Steel	Stainless Steel	Galv. Steel	Stainless Steel

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

Size		Maximum W.P.		Safety	Bend Radius (ENISO1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.	Factor	mm	Inch	Kg. / mt	Mt.	Feet	
40	1 ½"	10	150	4:1	100	4	0,98	40	132	
50	2"	10	150	4:1	150	6	1,34	40	132	
65	2 ½"	10	150	4:1	200	8	1,85	40	132	
75/80	3"	10	150	4:1	250	10	2,11	40	132	
100	4"	10	150	4:1	300	12	2,96	40	132	

#### CHEM LD

Code	VAPORCHEM PZ	VAPORCHEM PX	VAPORCHEM XZ	VAPORCHEM XX
Applications	Chemicals / Solvents Vapours			
Colour	Orange / Yellow			
Temperatures	-20 + 80°C			
Inner wire	PP Coated Steel	PP Coated Steel	Stainless Steel	Stainless Steel
Outer wire	Galv. Steel	Stainless Steel	Galv. Steel	Stainless 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

DNV - Det Norske Veritas - Type Approval Cert. N° P-12369

RINA - Registro Italiano Navale - Cert. N° MAC/81398/1/TO/99

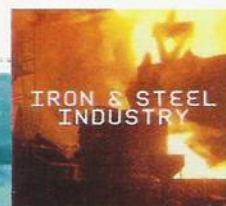
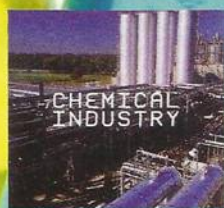
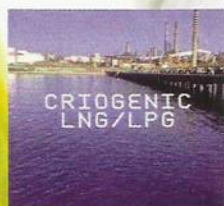
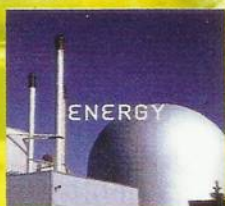
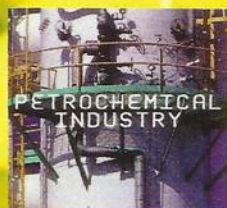
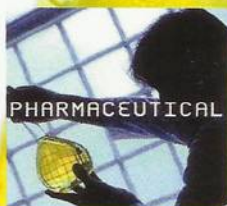
Russian Maritime Register of Shipping

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 BORRAMEO (MILANO) - ITALIA

Tel. +39 02 55 30 17 88 - Fax +39 02 54 72 158

[matec@matecgroup.com](mailto:matec@matecgroup.com)

[www.matecgroup.com](http://www.matecgroup.com)