

**COMPOTEC® CHEM** is a multi-layer composite hose manufactured from Polypropylene, Polyethylene and Polyester films and fabrics, with a weather-proof and abrasion resistant outer cover made of Polyvinyl chloride fabric. All the different layers are precisely overlapped on each other with predefined angles and, subsequently, compressed between two spirals, one internal and one external. This engineering gives to **COMPOTEC® CHEM** hoses lightness, flexibility and the ability to operate at certain pressures and temperatures that fully satisfy the requirements of the Chemical and Petro-chemical industry, and related transports, either by trucks or by railway tanks.

**FEATURES & APPLICATIONS - COMPOTEC® CHEM** is manufactured in accordance with the standard EN 13765:2018 (BS 5842:1980) and the guidelines NAHAD 600/2005. Extremely flexible and easy to handle, the **COMPOTEC® CHEM** hose is generally used for the transfer of chemicals, under pressure or suction. It is also frequently used for the transfer from tank trucks, rail trucks, loading or unloading of silos and on pumps and process machineries. It is ideal for the transfer of solvents in all process operations in chemical or paint industries. All the hoses are 100% resistant to aromatics, and can be used both for suction or delivery. Vacuum rating is 0,9 bar, according to the EN ISO 7233 method B. **COMPOTEC® CHEM** hose's assemblies are fitted with an extensive range of couplings readily available, externally swaged with crimping ferrules in Stainless or Galvanized Steel.

**SAFETY SPECS - COMPOTEC® CHEM** hoses have a 5:1 Safety Factor and they are tested at 1,5 times working pressure, in accordance with the construction standards and the Directive CE PED 2014/68/EU. The hose is permanently marked on the external ferrule, in compliance with Directive CE PED 2014/68/EU. The hose is supplied with a Declaration of Conformity and Use and Maintenance Manual. Additional test certifications can be supplied on request. The burst pressure indicated is intended at ambient temperature in accordance with EN 13765:2018. They are manufactured in accordance with the requirements of Par. 2:12 and 5:7 of the IMO Chemical Carrier Code and they are Type Approved by Lloyd's Register, Certification n° 13/00002 E1. Electrical continuity is achieved by its two wires bonded to end fittings and ferrules and this system helps to dissipate the electrostatic charges accumulated. The assembled hose's electrical resistance is less than 100 Ohm, as required by EN ISO 8031:2020, 4.8. On request it is possible to manufacture the hose in accordance to the Directive 2014/34/UE **ATEX**, with special black antistatic conductive external cover, the grounding cable, and the related documentation.

## RANGE

### CHEM 700 HD - HEAVY DUTY

**Applications:** Heavy Duty construction, for the transfer of a wide range of chemical products under suction or positive pressures. Commonly used for Ship to Shore or Ship to Ship transfer, Dockside and Bunkering loading or unloading and in general, for the most arduous Industrial and Marine applications.

**Construction:** Black PP coated inner wire, High strength polypropylene and polyester films and fabrics, high density polyethylene (UHMW PE) reinforcements, to avoid any possible leakages and guarantee a gas-tight construction, polyvinyl chloride coated polyester cover fabric, or on request, **ELASTAR** (a special PU coated fabric) more resistant to weather, ozone, high temperatures and abrasion. Available in 40 mt coils from 3/4" to 8", 25 mt length up to 12" and 12 mt up to 16".

### CHEM SD - STANDARD DUTY

**Applications:** Flexible hose for standard duties; 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 tanks and in-plant applications.

**Construction:** Black PP coated inner wire, High strength polypropylene films and fabrics, high density polyethylene film reinforcements, polyvinyl chloride coated polyester fabric cover. Available in 40 mt coils from 1 1/2" up to 8".

All **COMPOTEC®** hoses are 100% antistatic - Electrically continuous, and meet the requirements of EN, CE, AS, US Coast Guard and the NAHAD Guidelines. They are Type Approved by Lloyd's and ATEX approved for potentially explosive environment.



### HEAVY DUTY CHEMICAL SUCTION & DISCHARGE HOSE - EXCEEDS EN 13765:2018 TYPE 3

Size		Safety Factor	Working Pressure	Bend Radius EN ISO 1746	Weight Kg / mt		Length
mm	Inch	S.F. 5:1	Bar / PSI	mm	PZ	XZ/XX	Mt.
20	3/4"	5:1	15 / 220	75	0,75	0,87	40
25	1"	5:1	15 / 220	100	0,81	0,96	40
32	1 1/4"	5:1	15 / 220	125	0,95	1,12	40
40	1 1/2"	5:1	15 / 220	140	1,21	1,50	40
50	2"	5:1	15 / 220	180	1,65	1,87	40
65	2 1/2"	5:1	15 / 220	220	2,49	2,89	40
75/80	3"	5:1	15 / 220	280	3,22	3,57	40
100	4"	5:1	15 / 220	400	5,27	5,87	40
125	5"	5:1	15 / 220	485	7,25	8,32	40
150	6"	5:1	15 / 220	500	10,57	11,42	40
200	8"	5:1	15 / 220	800	13,15	15,32	40
250	10"	5:1	15 / 220	1000	23,77	24,05	25
300	12"	5:1	15 / 220	1200	29,25	29,34	25
350	14"	4:1	15 / 220	1400	36,10	36,50	12
400	16"	4:1	15 / 220	1600	40,20	40,67	12

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	S.S. 304/316	S.S. 304/316
Outer wire	Galv.Steel	S.S. 304/316	Galv.Steel	S.S. 304/316

### CHEM 700 HD

### STANDARD DUTY CHEMICAL SUCTION & DISCHARGE HOSE - EXCEEDS EN 13765:2018 TYPE 2

Size		Safety Factor	Working Pressure	Bend Radius EN ISO 1746	Weight Kg / mt		Length
mm	Inch	S.F. 5:1	Bar / PSI	mm	PZ	XZ/XX	Mt.
40	1 1/2"	5:1	10 / 150	100	1,17	1,47	40
50	2"	5:1	10 / 150	150	1,62	1,83	40
65	2 1/2"	5:1	10 / 150	200	2,06	2,46	40
75/80	3"	5:1	10 / 150	250	2,42	2,87	40
100	4"	5:1	10 / 150	300	4,00	3,01	40
125	5"	5:1	10 / 150	401	5,40	4,15	40
150	6"	5:1	10 / 150	500	9,45	10,33	40
200	8"	5:1	10 / 150	740	11,53	12,70	40

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	S.S. 304/316	S.S. 304/316
Outer wire	Galv.Steel	S.S. 304/316	Galv.Steel	S.S. 304/316

### CHEM SD



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# CHEMICALS



Lloyd's Register Cert n. 10359098-31/12/2020 - MATEC GROUP SRL Management System Certified as per ISO 9001:2015 (Approval number(s): ISO 9001-00026498)  
Lloyd's Register Cert. n. CERT-04193-99-AQ IND-SINCERT  
EN 13765:2018, approved from CEN

Directive 2014/68/EU "PED" with operating Procedures certified from Lloyd's Register - CE 0094/PED/MAD/11075954/01  
COMPOTEC® hoses comply with the Directive 2014/68/EU and classified accordingly.  
Directive UK Statutory Instrument 2016 No. 1105 from Lloyd's Register - 0038/UK/PER/PRJ11100324460/01

Directive ATEX 2014/34/UE hose for explosive atmospheres (Technical File Reference MATEX 2017 rev 1),  
Cert. held by Lloyd's Register Rec. nr. CE 0038/ATEX/MLN1790549/01

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  
EN ISO 10619-1  
EN ISO 7233 (method B)  
EN ISO 8031:2020, 4.8.  
AS 1180.13B (Electrical resistance)  
AS1180.13C (Electrical continuity)

#### Type Approval:

Lloyd's Register Type Approved - Cert. N° 13/00002 (E1)  
Lloyd's Register Type Approved - Cert. N° 18/00037-2  
DNV - Det Norske Veritas - Type Approval Cert. N° P-12369  
RINA - Registro Italiano Navale - Cert. N° MAC/81398/1/T0/99  
Inspection Report ADR BUREAU VERITAS Nr. 16-MF-MATEC (Dangerous Goods by Road)  
Russian Maritime Register of Shipping - 08031300  
Standard Organisation of NGA Programme - NGA-RFR22-019329-V0  
IBC Code Chapter 5 - Ship's Cargo hoses  
IMO Chemical Carrier Code - Paragraphs 2:12 and 5:7  
EAST CERTIFICATION EAC N° 0289738  
M.O.C.A. Declaration of Conformity No. 1903335-002, 1903335-003

#### Welding Process

in according to EN ISO 9606-1 EN 15607:2005 ISO/TR 15608:2017 UNI EN ISO 14175:2008 certified by DNV - Det Norske Veritas  
in according to ASME IX certified by DNV GL and ITALCERT .



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