

**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 Petro-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. 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, Docks 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.



### 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

 **尚府貿易股份有限公司**  
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# CHEMICALS



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



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