

# HDS CHEM

HDS 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 Petrol-chemical industry and those of the Oil & Gas industry.

HDS CHEM assemblies are fitted with an extensive range of couplings readily available, externally swaged with crimping ferrules.

HDS 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.

HDS 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. HDS CHEM 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 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 (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".

HDS 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 HD hoses are Type approved by Lloyd's with Certificate n° 13/002.

**CHEM SD - STANDARD DUTY**

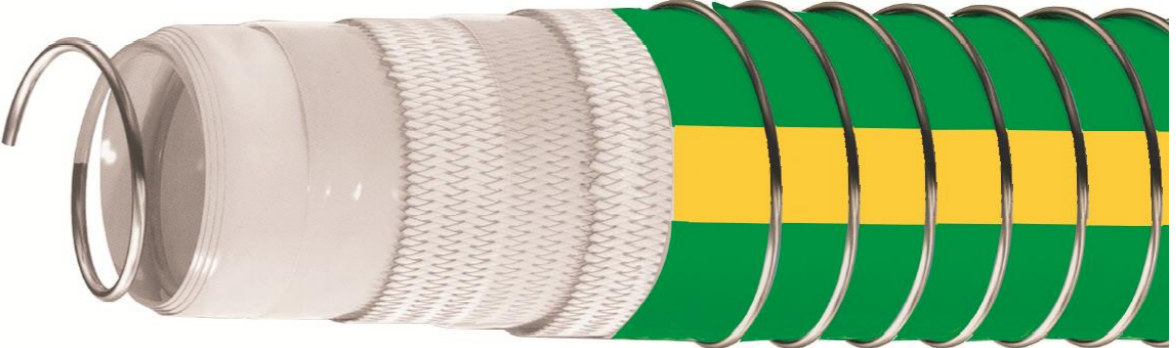
Applications : General purpose Standard Duty hose suitable for the safe transfer of a wide variety of chemicals under suction or pressure. Commonly used for loading and unloading of road and rail tankers, storage tank and in-plant applications. Suitable as flexible terminal hose for Top Loading arms. 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.

**CHEM LD - LIGHT DUTY** also available for vapour recovery



# HDS Hoses Australia



**CHEM HD HEAVY DUTY SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 3**

Size		Maximum W.P.		Safety	Bend Radius		Weight	Maximum Length	
mm	inch	Bar	P.S.I.	factor	mm	inch	kg/m	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	5.6	1.33	40	132
50	2	15	200	5:1	180	7.2	2.04	40	132
65	2 1/2	15	200	5:1	220	8.8	2.75	40	132
75/80	3	15	200	5:1	280	11.2	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	40	132
200	8	15	200	5:1	800	32	12.85	40	132
250	10	15	200	5:1	1000	40	22.85	25	82
300	12	15	200	5:1	1200	48	31.69	25	82

<b>Code</b>	CHEM HD PX 316	CHEM HD XX 316
<b>Applications</b>	Heavy Duty chemical and solvent transfer	
<b>Colour</b>	Green	
<b>Temperature</b>	-40 +100°C	
<b>Inner Wire</b>	Polypropylene	316SS
<b>Outer Wire</b>	316SS	316SS

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

Size		Maximum W.P.		Safety	Bend Radius		Weight	Maximum Length	
mm	inch	Bar	P.S.I.	factor	mm	inch	kg/m	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	3.65	40	132
150	6	10	150	5:1	500	20	8.91	40	132
200	8	10	150	5:1	740	29.6	11.16	40	132

<b>Code</b>	CHEM SD PX 316	CHEM SD XX 316
<b>Applications</b>	Heavy Duty chemical and solvent transfer	
<b>Colour</b>	Green	
<b>Temperature</b>	-30 +80°C	
<b>Inner Wire</b>	Polypropylene	316SS
<b>Outer Wire</b>	316SS	316SS

CHEM Vapour hose also available, to EN 13765:2010 Type 1. 5 Bar working pressure.



Certificate No.: 73Q14710

## HDS Hoses Australia

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**Quality Certificates**

- EN 13765:2010, approved from CEN
- 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)
- AS1180.5-1999 (method 5)
- AS 1180.13B (Electrical resistance)
- AS1180.13C (Electrical continuity)
- Type Approval**
- Lloyd's Register Type Approved
- RINA - Registro Italiano Navale
- Russian Maritime Register of Shipping

**Welding Process**

in according to EN 15608:2005 - EN 439:1996 - EN 15614-1:2005 - EN 6848:2005 - EN 12072:2001 and to ASME IX