

HYDROCARBON - OIL & FUEL



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 & Gas 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 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. **COMPOTEC®** 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 10 ohms, as required by EN ISO 8031 (BS 5842:1980 clause 6.2). 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, ground connection cable, for explosive environment.

COMPOTEC® OIL 800 HD and **OIL SD** hoses are specially engineered for the transfer of hydrocarbons, including oils, petrol, diesel, lubricating oils, paraffin and 100% aromatics, in all kinds of transfer. The range includes:

OIL 800 HD – HEAVY DUTY

Applications: Heavy Duty construction for the transfer of a wide variety of hydrocarbon conveyant under suction or pressure. Used for black oils and heavier lubricating products, Ship to Shore and Ship to Ship, Dockside and in general for the most arduous Industrial and Marine applications. Commonly used for all hose loading arms in Bottom Loading operations, thanks to the special reinforcement for minimal elongation.

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, weather and ozone resistant.

Available in 40 mt coils from 3/4" to 8" and 25 mt length up to 12"

COMPOTEC® OIL 800 HD hose assemblies are certified by DNV 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.

COMPOTEC® OIL 800 HD hoses as Type approved by Lloyds with Certificate n° 13/0002

OIL SD - STANDARD DUTY

Applications : General purpose Standard Duty hose suitable for the safe transfer of a wide variety of hydrocarbons, including fuel oils, petrol, diesel, lubricating oils, kerosene, and 100% aromatics under suction or pressure. Commonly used for road and rail tanker loading and discharging, storage tank and in-plant use. Suitable as flexible 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 films reinforcement, Vinyl coated polyester fabric cover, weather and ozone resistant. Meets EN, CE, PED, U.S. Coast Guard requirements, DNV Approved.

VAPOROIL - LIGHT DUTY

Applications: General purpose Light Duty hose is ideal for use in petroleum and petrochemical vapor recovery systems in ship to shore, 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 Lloyds and DNV approved and ATEX certificate can be released on request.#



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

Size		Max. W.P.		Safety factor	Bend Radius EN ISO 1746		Weight	
mm	inch	Bar	Psi		mm	inch	Kg/mt	
20	3/4"	15	200	5:1	75	3	0,73	
25	1"	15	200	5:1	100	4	0,90	
32	1 1/4"	15	200	5:1	125	5	1,27	
40	1 1/2"	15	200	5:1	140	5 1/2	1,49	
50	2"	15	200	5:1	180	7	2,18	
65	2 1/2"	15	200	5:1	220	8,5	3,09	
75/80	3"	15	200	5:1	180	11	3,66	
100	4"	15	200	5:1	400	16	5,28	
150	6"	15	200	5:1	575	23	11,90	
200	8"	15	200	5:1	800	32	15,65	
250	10"	15	200	5:1	1000	40	22,53	
300	12"	15	200	5:1	1200	48	31,78	

OIL 800 HD

Code	OIL 800HD ZZ	OIL 800HD ZX	OIL 800HD ZY	OIL 800HD XX
Applications	Heavy Duty Fuel/Oil liquid transfer			
Colour	Blue / Black			
Temperature	-40 +100°C			
Inner wire	Galv.Steel	Galv.Steel	St.Steel	St.Steel
Outer wire	Galv.Steel	St.Steel	Galv.Steel	St.Steel

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

Size		Max. W.P.		Safety factor	Bend Radius EN ISO 1746		Weight Kg/mt		
mm	inch	Bar	Psi		mm	inch	ZZ/XX	AZ	AA
40	1 1/2"	10	150	5:1	100	4	1,23	0,98	0,67
50	2"	10	150	5:1	150	6	1,66	1,35	0,97
65	2 1/2"	10	150	5:1	200	8	2,10	1,71	1,25
75/80	3"	10	150	5:1	250	10	2,53	2,05	1,53
100	4"	10	150	5:1	300	12	4,10	3,29	2,38
150	6"	10	150	5:1	500	20	9,85	7,50	5,58
200	8"	10	150	5:1	740	29	13,31	9,71	6,94

OIL SD

Code	OIL SD ZZ	OIL SD ZX	OIL SD XX	OIL SD AZ	OIL SD AA
Applications	Standard Duty Fuel/Oil liquid transfer				
Colour	Blue		Orange		
Temperature	-30 +80°C				
Inner wire	Galv.Steel	Galv.Steel	St.Steel	Aluminium	Aluminium
Outer wire	Galv.Steel	St.Steel	St.Steel	Galv.Steel	Aluminium

LIGHT DUTY HYDROCARBON VAPOUR SUCTION & DISCHARGE HOSE EN 13765:2010 TYPE 1

Size		Max. W.P.	Vacuum rating	Safety factor	Bend Radius EN ISO 1746		Weight Kg/mt		
mm	inch	Bar	Bar		mm	inch	ZZ	AZ	AA
40	1 1/2"	5	0,7	4:1	100	4	1,20	0,95	0,64
50	2"	5	0,7	4:1	150	6	1,56	1,26	0,89
65	2 1/2"	5	0,7	4:1	200	8	2,07	1,68	1,12
75/80	3"	5	0,7	4:1	250	10	2,40	1,96	1,44
100	4"	5	0,7	4:1	300	12	3,10	2,52	1,79
150	6"	5	0,7	4:1	500	20	8,33	6,53	4,09
200	8"	5	0,7	4:1	740	29	10,95	8,39	5,61
250	10"	5	0,7	4:1	1000	40	17,40	13,55	8,68
300	12"	5	0,7	4:1	1200	48	24,08	18,48	12,49

VAPOROIL LD

Code	VAPOROIL ZZ	VAPOROIL AZ	VAPOROIL AA
Applications	Light Duty Fuel/Oil Vapours		
Colour	Yellow		
Temperature	-30 +80°C		
Inner wire	Galv.Steel	Aluminium	Aluminium
Outer wire	Galv.Steel	Galv.Steel	Aluminium

HYDROCARBONS OILS

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:

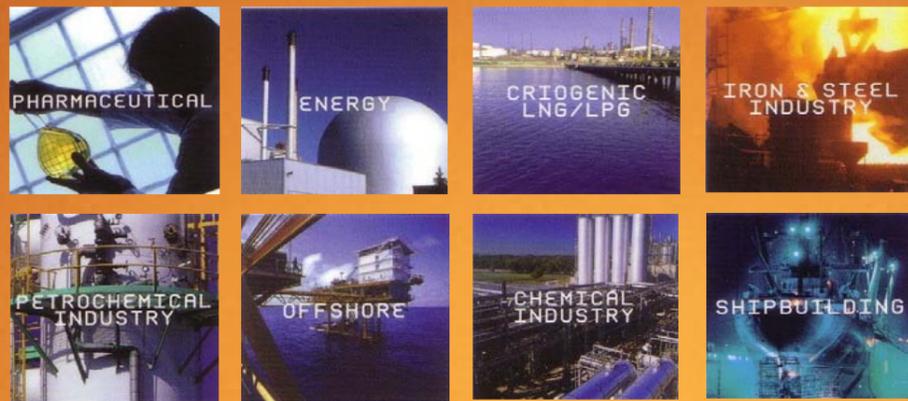
BS 5173-102.10:1990 section 102.10 - (EN ISO 1402)
AS1180.5-1999 (method 5)
AS 1180.13B (Electrical resistance)
AS1180.13C (Electrical continuity)

Type Approval

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 6848:2005 - EN 12072:2001 certified by DNV - Det Norske Veritas
in according to ASME IX certified by RINA



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COMPOTEC®