

Composite hoses OIL 800 for oil and fuel



Hoses type **OIL 800 HD** and **OIL SD** are specially engineered for the transfer of hydrocarbons, including oil, petrol, diesel, lubricating oils, MTBE, paraffin and 100% aromatics, in all kinds of transfer !

The series **OIL** is a multi-layer thermoplastic hose manufactured from polypropylene, polyethylene and polyester films and polypropylene fabrics with a weatherproof and abrasion resistant outer cover made of polyvinyl coated polyester fabric. Outer cover is also available in ELASTOTHANE®, a special PU coated fabric. It is UV-, ozone-, sunlight- and weather-resistance and 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 requirements of the petrol-chemical industry and those of the oil and gas industry.

Assemblies can be fitted with an extensive range of couplings readily available, externally swaged with crimping ferrules.

Electrical continuity is achieved by the two wires bonded to the end fittings, this helps dissipating accumulated charge and avoiding static flash. The electric resistance of hose assemblies is less than 1 Ω /m, as required by EN ISO 8031:2009 - 4.7. Upon request it is possible to manufacture these composite hoses in accordance to the Directive 94/9/EC "**ATEX**" with a special outer antistatic black cover ground connection cable for explosive environment.

All assemblies are tested at 1½ 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.



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 most of the hard industrial and marine applications. Commonly used for all hose loading arms in bottom loading operations, thanks to the special reinforcement for minimal elongation. Fully suitable for 100% aromatics and MTBE transfer.



Design: Extraordinary strength is provided by polypropylene and polyester films and fabrics, HD polyethylene films reinforcement, while high density UHMW PLT seamless tubular extruded film avoid any possible leak and guarantee a gas-tight construction. The design is completed by a weather and ozone resistant cover from polyvinyl coated PE-fabric. Available in 40 m coils from 3/4" to 8" diameter and 25 m length up to 12" diameter.

Type **OIL 800 HD** hose assemblies are certified by DNV 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.

OIL 800 HD hoses are type approved by Lloyd's under certificate n° 13/0002 !

Code	OIL 800HD ZZ	OIL 800HD ZX	OIL 800HD XZ	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



Size		Max working pressure		Safety factor	Bend radius EN/ISO 1746		Weight kg / m	Max length	
mm	Inch	bar	P.S.I.		mm	inch		m	Feet
20	3/4"	15	200	5:1	75	3	0,73	40	132
25	1"	15	200	5:1	100	4	0,90	40	132
32	1 ¼"	15	200	5:1	125	5	1,27	40	132
40	1 ½"	15	200	5:1	140	5 ½	1,49	40	132
50	2"	15	200	5:1	180	7	2,18	40	132
65	2 ½"	15	200	5:1	220	8 ½	3,09	40	132
75/80	3"	15	200	5:1	280	11	3,66	40	132
100	4"	15	200	5:1	400	16	5,28	40	132
150	6"	15	200	5:1	575	23	11,90	40	132
200	8"	15	200	5:1	800	32	15,65	40	132
250	10"	15	200	5:1	1000	40	22,53	25	82
300	12"	15	200	5:1	1200	48	31,78	25	82

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, MTBE and 100% aromatics under suction or pressure. Commonly used for road and rail tanker loading and discharging, storage tank and in-plant use. This type is suitable as flexible hose for top loading arms, available in 40 m coils from 1 ½" up to 8".

Design: High strength polypropylene films and fabrics, high density polyethylene film reinforcements, polyvinyl coated polyester fabric cover, weather and ozone resistant.

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	st. steel	aluminium

Size		Max Working pressure		Safety factor	Bend radius EN/ISO 1746		Weight kg/m			Max length	
mm	Inch	bar	P.S.I.		mm	Inch	ZZ / XX	AZ	AA	m	Feet
40	1 ½"	10	150	5:1	140	5 ½	1,23	0,98	0,67	40	132
50	2"	10	150	5:1	180	7	1,66	1,35	0,97	40	132
65	2 ½"	10	150	5:1	220	8 ½	2,10	1,71	1,25	40	132
75/80	3"	10	150	5:1	180	11	2,53	2,05	1,53	40	132
100	4"	10	150	5:1	400	16	4,10	3,29	2,38	40	132
150	6"	10	150	5:1	575	23	9,85	7,50	5,58	40	132
200	8"	10	150	5:1	800	32	13,31	9,71	6,94	40	132

VAPOROIL - LIGHT DUTY

Applications: General purpose Light Duty hose is ideal for use in petroleum and petrochemical vapour 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.

Code	VAPOROIL ZZ	VAPOROIL AZ	VAPOROIL AA
Application	Light duty oil / Vapour return		
Colour	Yellow		
Temperature	-30 / +80°C		
Inner wire	galv. steel	aluminium	aluminium
Outer wire	galv. steel	galv. steel	aluminium

Size		Max working pressure		Vacuum rating	Safety factor	Bend radius EN/ISO 1746		Weight kg/m			Max length	
mm	Inch	bar	P.S.I.			mm	Inch	ZZ/XX	AZ	AA	m	Feet
40	1 ½"	5	100	0,7	4:1	140	5 ½	1,20	0,95	0,64	40	132
50	2"	5	100	0,7	4:1	180	7	1,56	1,26	0,89	40	132
65	2 ½"	5	100	0,7	4:1	220	8 ½	2,07	1,68	1,12	40	132
75/80	3"	5	100	0,7	4:1	180	11	2,40	1,96	1,44	40	132
100	4"	5	100	0,7	4.1	400	16	3,10	2,52	1,79	40	132
150	6"	5	100	0,7	4:1	575	23	8,33	6,53	4,09	40	132
200	8"	5	100	0,7	4:1	800	32	10,95	8,39	5,61	40	132
250	10"	5	100	0,7	4:1	1000	40	17,40	13,55	8,68	25	82
300	12"	5	100	0,7	4:1	1200	48	24,08	18,48	12,49	25	82

Burst pressure indicated is at ambient temperature. Maximum temperature rating can only be maintained when working within limits of working pressure. We reserve the right to change specification without prior notice !