

HYDROCARBONS OILS

A black and white silhouette of an oil pumpjack (jack-o'-lantern) is set against a warm, orange-hued sunset sky. The pumpjack's long, angled arm and the circular counterweights are clearly visible. The overall composition is industrial and evocative of the oil industry.

COMPOTEC®

HYDROCARBON - O

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 tank truck 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 BS 5842:1980 clause 6.4 (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®** hoses can be supplied in the **FIRETEC** version with ADR self-extinguish CL2 cover.

Burst pressure indicated, is at ambient temperature when tested in accordance with BS 5173 section 102.10:1990. (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. The electric resistance of hose assemblies is less than 10 ohms, as required by BS 5842:1980 clause 6.2 (EN ISO 8031). 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.

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. Suitable for MTBE and Unleaded petrol.

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 film's 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, fire resistant, abrasion, 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

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 3/4" up to 8".

Construction: High strength polypropylene films and fabrics, high density polyethylene films reinforcement, Vinyl coated polyester fabric cover, fire resistant, abrasion, weather and ozone resistant.

LIGHT WEIGHT OIL LD - VAPOUR RECOVERY

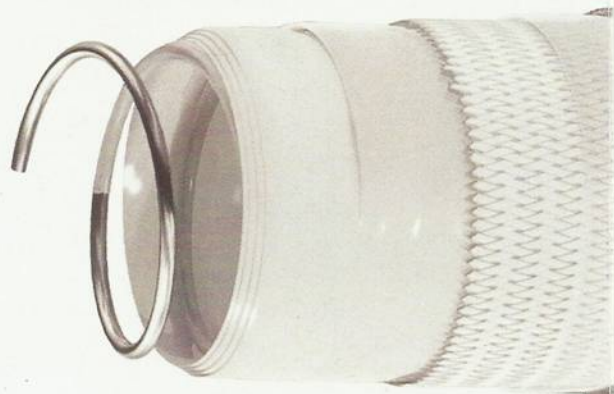
Applications: General purpose Light Duty hose is ideal for use in petroleum and petrochemical vapor recovery systems. Type with Aluminium wire is significantly lighter making it particularly suitable for petrol forecourt deliveries.

Meets BS 3492 - BX Class 1 for Aviation fuels.

Complies with USCG Marine Vapour control system 33CFR Part 154.810

100% Antistatic- Electrically continuous

Meets EN, CE, U.S. Coast Guard requirements, NAHAD Guidelines, DNV Approved. ATEX on request.



IL

COMPOTEC®



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

Size		Maximum W.P.		Safety Factor	Bend Radius (ENISO1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.		mm	Inch	Kg. / mt	Mt.	Feet	
20	¾"	15	200	5:1	75	3	0,78	40	132	
25	1"	15	200	5:1	100	4	0,94	40	132	
32	1 ¼"	15	200	5:1	125	5	1,26	40	132	
40	1 ½"	15	200	5:1	140	5 1/2	1,48	40	132	
50	2"	15	200	5:1	180	7	2,16	40	132	
65	2 ½"	15	200	5:1	220	8,5	3	40	132	
75/80	3"	15	200	5:1	280	11	3,56	40	132	
100	4"	15	200	5:1	400	16	5,19	40	132	
150	6"	15	200	5:1	575	23	11,52	40	132	
200	8"	15	200	5:1	800	32	16,2	40	132	
250	10"	15	200	5:1	1000	40	22,78	25	82	
300	12"	15	200	5:1	1200	48	31,57	25	82	

OIL 800 HD

Code	OIL 800HD ZZ	OIL 800HD ZX	OIL 800HD XZ	OIL 800HD XX
Applications	Fuel / Oil Liquids			
Colour	Blue / Black			
Temperatures	-40 + 100°C			
Inner wire	Galv. Steel	Galv. Steel	Stain. Steel	Stain. Steel
Outer wire	Galv. Steel	Stain. Steel	Galv. Steel	Stain. Steel

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

Size		Maximum W.P.		Safety Factor	Bend Radius (ENISO1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.		mm	Inch	Kg. / mt	Mt.	Feet	
25	1"	10	150	5:1	75	3	0,92	40	132	
32	1 ¼"	10	150	5:1	80	3	1,03	40	132	
40	1 ½"	10	150	5:1	100	4	1,21	40	132	
50	2"	10	150	5:1	150	6	1,62	40	132	
65	2 ½"	10	150	5:1	200	8	2,05	40	132	
75/80	3"	10	150	5:1	250	10	2,42	40	132	
100	4"	10	150	5:1	300	12	4,02	40	132	
150	6"	10	150	5:1	500	20	9,6	40	132	
200	8"	10	150	5:1	740	29	13,59	40	132	

OIL SD

Code	OIL SD ZZ	OIL SD ZX	OIL SD XZ	OIL SD XX
Applications	Fuel / Oil Liquids			
Colour	Blue			
Temperatures	-30 + 80°C			
Inner wire	Galv. Steel	Galv. Steel	Stain. Steel	Stain. Steel
Outer wire	Galv. Steel	Stain. Steel	Galv. Steel	Stain. Steel

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

Size		Maximum W.P.		Safety Factor	Bend Radius (ENISO1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.		mm	Inch	Kg. / mt	Kg. / mt	Mt.	Feet
40	1 ½"	10	150	4:1	100	4	0,96	0,65	40	132
50	2"	10	150	4:1	150	6	1,32	0,94	40	132
65	2 ½"	10	150	4:1	200	8	1,67	1,23	40	132
75/80	3"	10	150	4:1	250	10	1,98	1,49	40	132
100	4"	10	150	4:1	300	12	3,21	2,31	40	132

OIL LD

Code	VAPOROIL ZZ	VAPOROIL ZX	OIL LD AZ	OIL LD AA
Applications	Fuel / Oil - Vapours			
Colour	Orange / Yellow			
Temperatures	-20 + 80°C			
Inner wire	Galv. Steel	Galv. Steel	Aluminium	Aluminium
Outer wire	Galv. Steel	Stain. Steel	Galv. Steel	Aluminium

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:

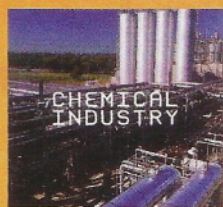
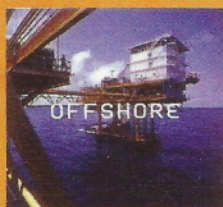
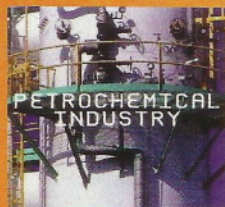
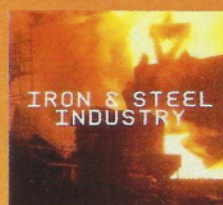
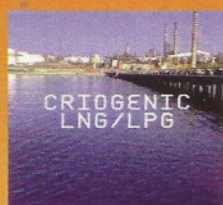
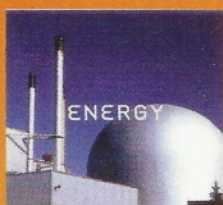
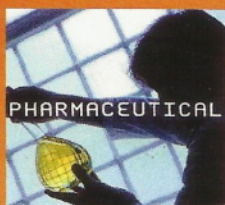
BS 5173-102.10:1990 section 102.10 - (EN ISO 1402)
AS1180.5-1999 (method 5)
AS 1180.13B (Electrical resistance)
AS1180.13C (Electrical continuity)

Type Approval

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



MATEC GROUP SRL

VIA I MAGGIO, 7 - PESCHIERA BORROMEO (MILANO) - ITALIA
Tel. +39 02 55 30 17 88 - Fax +39 02 54 72 158
matec@matecgroup.com
www.matecgroup.com