

COMPOTEC® OIL is a multi-layer composite hose manufactured from Polypropylene, Polyethylene and Polyester films and fabrics, with a weather-proof and abrasion resistant outer cover made of Polyvinyl chloride fabric. All the different layers are precisely overlapped on each other with predefined angles and, subsequently, compressed between two spirals, one internal and one external. This engineering gives to **COMPOTEC®** hoses lightness, flexibility and the ability to operate at certain pressures and temperatures that fully satisfy the requirements of the Petro-chemical industry, Oil industry and related transports, either by trucks or by railway tanks.

FEATURES & APPLICATIONS - COMPOTEC® OIL is manufactured according to the standard EN 13765:2018 (BS 5842:1980) and the NAHAD 600/2005 guidelines. Extremely flexible and easy to handle, the **COMPOTEC® OIL** hose is generally used for the transfer of petroleum and hydrocarbon products, such as oil, gasoline, naphtha, lubricating oils, MTBE and paraffin, under pressure or suction. It is also commonly used, for the transfer from tank trucks, rail trucks, loading or unloading of silos and on pumps and process machinery. All the hoses are 100% resistant to aromatics and can be used both for suction or delivery. Vacuum rating is 0,9 bar, according to the EN ISO 7233 method B. **COMPOTEC® OIL** hose assemblies, are fitted with an extensive range of couplings readily available, externally swaged with crimping ferrules in Stainless or Galvanized Steel.

SAFETY SPECS - COMPOTEC® OIL hoses have a 5:1 Safety Factor and they are tested at 1,5 times working pressure, in accordance with the construction standards and the Directive CE PED 2014/68/EU. The hose is permanently marked on the external ferrule, in compliance with Directive CE PED 2014/68/EU. The hose is supplied with a Declaration of Conformity and Use and Maintenance Manual. Additional test certifications can be supplied on request. The burst pressure indicated is intended at ambient temperature in accordance with EN 13765:2018. They are manufactured in accordance with the requirements of Par. 2:12 and 5:7 of the IMO Chemical Carrier Code and they are Type Approved by Lloyd's Register, Certification n° 13/00002 E1. Electrical continuity is achieved by its two wires bonded to end fittings and ferrules and this system helps to dissipate the electrostatic charges accumulated. The assembled hose's electrical resistance is less than 100 Ohm, as required by EN ISO 8031:2020, 4.8. On request it is possible to manufacture the hose in accordance to the Directive 2014/34/EU ATEX, with special black antistatic conductive external cover, the grounding cable, and the related documentation.

RANGE

OIL 800 HD - HEAVY DUTY

Applications: Heavy Duty construction, for the transfer of a wide range of petroleum products under suction or pressure. **COMPOTEC® OIL 800 HD** it's used for liquid transfer in Ship to Shore or Ship to Ship transfer, Dockside and Bunkering loading or unloading operations, and in general, for the most arduous Industrial and Marine applications. Resistant to the highest concentrations of aromatics, it is also commonly used for the transfer of MBTE, Crude Oil, Naphta, or refined products.

Construction: Galvanized steel inner wire, High strength polypropylene and polyester films and fabrics, high density polyethylene films (UHMW PE) reinforcement, to avoid any possible leakages and guarantee a gas-tight construction, polyvinyl chloride coated polyester cover fabric, or, on request, **ELASTAR** (a special PU coated fabric) more resistant to the weather, ozone, high temperatures and abrasion. Available in 40 mt coils from 3/4" to 8", 25 mt length up to 12" and 12 mt up to 16".

OIL SD - STANDARD DUTY

Applications: Flexible hose for standard duties; suitable for the safe transfer of a wide variety of fuels and oils under suction or pressure. Commonly used for loading and unloading of road and rail tankers, storage tanks and in-plant applications.

Construction: Galvanized steel inner wire, high strength polypropylene films and fabrics, high density polyethylene film reinforcements, and an external cover made with a Polyvinylchloride coated Polyester fabric. For those application where extreme lightness is required, the **COMPOTEC® OIL SD** range, is also available with aluminium internal and/or external wire. This version is particularly appreciated by tanker fuel hauliers for its handling and ease of use. Available in 40 mts coils from 1 1/2" up to 8".

All **COMPOTEC®** hoses are 100% antistatic - Electrically continuous, meet the requirements of EN, CE, AS, US Coast Guard and the NAHAD Guidelines. They are in Type Approved by Lloyd's and ATEX approved for potentially explosive environment



HEAVY DUTY OIL & FUELS SUCTION & DISCHARGE HOSE - EXCEEDS EN 13765:2018 TYPE 3

Size		Safety Factor	Working Pressure	Bend Radius EN ISO 1746	Weight	Length
mm	Inch	S.F. 5:1	Bar / PSI	mm	Kg. / mt	Mt.
20	3/4"	5:1	15 / 220	75	0,73	40
25	1"	5:1	15 / 220	100	0,90	40
32	1 1/4"	5:1	15 / 220	125	1,27	40
40	1 1/2"	5:1	15 / 220	140	1,49	40
50	2"	5:1	15 / 220	180	2,18	40
65	2 1/2"	5:1	15 / 220	220	3,09	40
75/80	3"	5:1	15 / 220	280	3,66	40
100	4"	5:1	15 / 220	400	5,28	40
125	5"	5:1	15 / 220	485	7,25	40
150	6"	5:1	15 / 220	500	11,90	40
200	8"	5:1	15 / 220	800	15,65	40
250	10"	5:1	15 / 220	1000	22,53	25
300	12"	5:1	15 / 220	1200	31,78	25
350	14"	4:1	15 / 220	1400	36,10	12
400	16"	4:1	15 / 220	1600	40,20	12

OIL 800 HD

Code	OIL HD ZZ	OIL HD ZX	OIL HD XZ	OIL HD XX
Applications	Heavy Duty Petroleum Products Transfer			
Colour	Blue / Black			
Temperature	-40 +100°C			
Inner wire	Galv.Steel	Galv.Steel	S.S. 304/316	S.S. 304/316
Outer wire	Galv.Steel	S.S. 304/316	Galv.Steel	S.S. 304/316

STANDARD DUTY OIL & FUELS SUCTION & DISCHARGE HOSE - EXCEEDS EN 13765:2018 TYPE 2

Size		Safety Factor	Working Pressure	Bend Radius EN ISO 1746	Weight Kg / Mt			Length
mm	Inch	S.F. 5:1	Bar / PSI	mm	ZZ/XX	AZ	AA	Mt.
40	1 1/2"	5:1	10 / 150	100	1,47	1,11	0,69	40
50	2"	5:1	10 / 150	150	1,83	1,38	0,88	40
65	2 1/2"	5:1	10 / 150	200	2,46	1,87	1,22	40
75/80	3"	5:1	10 / 150	250	2,87	2,20	1,46	40
100	4"	5:1	10 / 150	300	4,15	3,22	2,20	40
125	5"	5:1	10 / 150	401	4,80	3,90	2,85	40
150	6"	5:1	10 / 150	500	10,33	7,99	5,51	40
200	8"	5:1	10 / 150	740	13,31	9,94	7,25	40

OIL SD

Code	OIL SD ZZ	OIL SD ZX	OIL SD XX	OIL SD AZ	OIL SD AA
Applications	Standard Duty Petroleum Products Transfer				
Colour	Blue				
Temperature	-30 +80°C				
Inner wire	Galv.Steel	Galv.Steel	S.S. 304/316	Aluminium	Aluminium
Outer wire	Galv.Steel	S.S. 304/316	S.S. 304/316	Galv.Steel	Aluminium
S.F.	5:1	5:1	5:1	4:1	4:1

* S.F. 4:1 if Aluminium Wires



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Lloyd's Register Cert n. 10359098-31/12/2020 - MATEC GROUP SRL Management System Certified as per ISO 9001:2015 (Approval number(s): ISO 9001-00028498)
Lloyd's Register Cert. n. CERT-04193-99-AQ IND-SINCERT
EN 13765:2018, approved from CEN

Directive 2014/68/EU "PED" with operating Procedures certified from Lloyd's Register - CE 0094/PED/MAD/11075954/01
COMPOTEC® hoses comply with the Directive 2014/68/EU and classified accordingly.
Directive UK Statutory Instrument 2016 No. 1105 from Lloyd's Register - 0038/UK/PER/PRJ11100324460/01

Directive ATEX 2014/34/UE hose for explosive atmospheres (Technical File Reference MATEX 2017 rev 1),
Cert. held by Lloyd's Register Rec. nr. CE 0038/ATEX/MLN1790549/01

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
EN ISO 10619-1
EN ISO 7233 (method B)
EN ISO 8031:2020, 4.8.
AS 1180.13B (Electrical resistance)
AS 1180.13C (Electrical continuity)

Type Approval:

Lloyd's Register Type Approved - Cert. N° 13/00002 (E1)
Lloyd's Register Type Approved - Cert. N° 18/00037-2
DNV - Det Norske Veritas - Type Approval Cert. N° P-12369
RINA - Registro Italiano Navale - Cert. N° MAC/81398/1/TO/99
Inspection Report ADR BUREAU VERITAS Nr. 16-MF-MATEC (Dangerous Goods by Road)
Russian Maritime Register of Shipping - 08031300
Standard Organisation of NGA Programme - NGA-RFR22-019329-V0
IBC Code Chapter 5 - Ship's Cargo hoses
IMO Chemical Carrier Code - Paragraphs 2:12 and 5:7
EAST CERTIFICATION EAC N° 0289738
M.O.C.A. Declaration of Confo No. 1903335-002, 1903335-003

Welding Process

in according to EN ISO 9606-1 - EN 15607:2005 ISO/TR 15608:2017 UNI EN ISO 14175:2008 certified by DNV - Det Norske Veritas
in according to ASME IX certified by DNV GL and ITALCERT

HYDROCARBONS OILS



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