



HIGRADE 101



COLOUR	"Nato" Military Green
WIRES	AISI 304 Stainless steel internal wire (X)
	Galvanised carbon steel external wire (Z)
	Also available with 304 Stainless Steel external wire (X), 316 on request
CONSTRUCTION	<p>COMPOTEC® HIGRADE 101 hose is a multi-layer thermoplastic hose manufactured from Polypropylene, Polyethylene films and Polypropylene fabrics, with a weather-proof and abrasion resistant outer cover made of Polyurethane coated Polyester fabric.</p> <p>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.</p>



CHARACTERISTICS AND APPLICATIONS

COMPOTEC® HIGRADE 101 is manufactured according to the requirement specified by the European Standards EN 13765:2003 Type 3 (BS 5842:1980), and in accordance with the recommendations of NAHAD Guidelines (NAHAD 600/2005).

COMPOTEC® HIGRADE 101 hoses fully complies BS 3492:1987 for carrying gasoline, kerosene, fuel and lubrication oils, including aviation fuels with high aromatic content at a temperature up to 80°C. COMPOTEC® HIGRADE 101 has been specifically manufactured with a special construction designed to eliminate contaminants. Bore material (first layer in contact with fluid) is made in an high purity, High Molecular Weight Polyethylene (UHMW PLT) to avoid any possible absorption or contamination. The Stainless steel inner wire is included to ensure that no metallic flakes are deposited into the conveyant. During all the phases of production, the hose is controlled and no lubricants or oils are used during the manufacturing process. Extremely flexible, easy to handle and bend, COMPOTEC® HIGRADE 101 hoses are used in such applications as transfer for rail and road tanker loading and discharging, storage tank and in-plant use, all hoses are 100% aromatic resistant and perfectly antistatic and can be used for delivery or suction of vapours. COMPOTEC® HIGRADE 101 assemblies are fitted with an extensive range of couplings readily available, externally swaged with Stainless Steel or Aluminium ferrules.

SAFETY

COMPOTEC® HIGRADE 101 assemblies are tested at 1 ½ 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 embossing, with manufacturer's name, nominal bore, the hose assembly serial number and the last test date of the hose assembly. Full test certification can be supplied on request.

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 HIGRADE 101 hoses in accordance to the Directive 94/9/EC "ATEX", with a special outer antistatic black cover.

Assemblies are suitable for use with a vacuum not exceeding 0.9 Bar. According to the Standard descriptions, COMPOTEC® HIGRADE 101 hoses meets the requirements for type BX, for all products included in "Class 1". COMPOTEC® HIGRADE 101 hose can be supplied, on request, in the FIRETEC version, with an outer cover made of special ADR self extinguish CL 2 coated fabric. COMPOTEC® HIGRADE 101 hose can be supplied, on request, in the HIPRESS version, with extra aramidic fabric reinforcements, to withstand higher pressures, WP 20, 25 up to 40 Bar, for special applications.

TEMPERATURE RANGE - 40 °C + 80° C

HOSE MARKING COMPOTEC® - HIGRADE 101 - EN 13765 TYPE 3 – PN 15 – 80°C – XLPE – Quarter / year of hose manufacture

Size		Maximum W.P.		Min. Burst (EN ISO 1402)		Bend Radius (EN ISO 1746)		Weight		Maximum Length	
mm	Inch	Bar	P.S.I.	Bar	P.S.I.	mm.	Inch	Kg / mt.	Lb/Ft	Mt	Feet
25	1"	15	200	75	1000	75	3	0,8	0.5	35	120
32	1 ¼"	15	200	75	1000	80	3	1,0	0.7	35	120
40	1 ½"	15	200	75	1000	85	3 ½	1,3	0.9	35	120
50	2"	15	200	75	1000	125	5	2,0	1.3	35	120
65	2 ½"	15	200	75	1000	150	6	3,0	2.0	35	120
75	3"	15	200	75	1000	175	7	3,5	2.3	35	120
80	3 5/32"	15	200	75	1000	180	7	3,7	2.5	35	120
100	4"	15	200	75	1000	250	10	4,9	3.3	35	120
150	6"	15	200	75	1000	500	20	11,4	7.6	20	65
200	8"	15	200	75	1000	700	28	17,0	11.4	20	65
250	10"	12	170	60	850	900	35	25,1	16.8	12	40

- All hoses are available in an assortment of colours and it is possible, on request, and with a minimum purchase order, to add a "customer labelling" or "product labelling" to the outside wall

- Burst pressure indicated is at ambient temperature. Maximum temperature rating can only be maintained when working within limits of working pressure

- Each hose assembly is permanently marked on the ferrule at one end according to EN 13765:2003 clause 10.1 – 10.2