Basics about Composite hoses

GENERAL DESIGN

A composite hose is a multi-layer arrangement of different layers of Polypropylene, Polyethylene and Polyester films and Polypropylene fabrics, a weather-proof and abrasion resistant outer cover from Polymeric coated Polyester fabric, wrapped together and tensioned between internal and external wire spirals.

For increased UV, Ozone, Sunlight and weathering resistance the outer cover is also available in a special Hypalon coated fabric, which offers superior temperature and abrasion characteristics. This enables our product to maintain extreme flexibility with tremendous strength and durability.

STANDARDS

Our Composite hose assemblies are independently tested and comply with relevant international standards, such as EN 13765:2003 Type 3, BS 5842:1980, CE Directive 97/23 “PED” and NAHAD guidelines 600/2005!

The MARINE series hoses furthermore are type-approved and manufactured according to § 2:12 and 5:7 of the IMO Chemical Carrier Code.

Generally all our hose assemblies are fitted with an extensive range of couplings readily available, externally swaged with Stainless Steel or Carbon Steel ferrules.

SAFETY

For safety and reliability, assemblies are tested at 1½ times rated working pressure, in accordance with BS 5842:1980 clause 6.4 (EN ISO 1402). The securing ferrule at one end of each hose is permanently marked by embossing, stating manufacturer’s name, nominal bore, serial number and the test date.

Full test certification can be supplied, if requested with the order.

Burst pressure indicated, is tested at ambient temperature in accordance with BS 5173 section 102.10:1990 (EN ISO 1402). Vacuum of 0,9 bar is rated according to the EN ISO 7233 Method B.

Electrical continuity is achieved by the two wires bonded to the end fittings, this helps dissipate accumulated charge and to avoid static flash. A special conductive swaging seal is used to guarantee the hose is electrically continuous through both the inner and outer helices. The electric resistance of hose assemblies is less than $10\ \Omega$, as required by BS 5842:1980 clause 6.2 (EN ISO 8031).

On request, special electrical discontinuous hose assemblies can also be supplied!