SILFLEX

Silicone hose systems designed for precision and performance

DS014

Fluorocarbon (FKM) lined silicone hose with polyester reinforcement

For more information or data, please visit www.silflex.com or contact us by phone: +44 (0) 1443 238 464 or email: hosesolutions@silflex.com

General Use

This type of hose is generally used in applications where the medium flowing through the hose is likely to degrade the standard silicone or even Fluorosilicone, pump fuels such as Petrol/Gasoline and similar fuels including E85 Ethanol based pump fuel.
Working Temperature Range: -40°C to +180°C.
Working Pressures: Dependant on hose construction and customer requirements.

Construction

A lining of Green Fluorocarbon, covered with plies of Silicone, reinforced with Polyester Fabric. The number of plies will vary depending on the working pressure, bore size, and required wall thickness.

Material Specifications

Fluorocarbon Rubber Compound

Colour	Green
Hardness (IHRD)	62 ± 3
Specific Gravity (g/cm^3)	2.05 ± 0.02
Tensile Strength (Mpa)	14.5
Elongation at Break (%)	250

Silicone Rubber Compound

Colour	Various
Hardness (IHRD)	65 ± 5
Specific Gravity (g/cm^3)	1.18 ± 0.05
Tensile Strength (Mpa)	8.6
Elongation at Break (%)	308
Tear Strength (KN/m)	13

The above physical properties refer to a test sheet press cured for 5mins at 115°C, and post cured for 4 hrs @ 200°C. Tested to the relevant BS903 standard.

Fluid Resistance Figures (Fluorocarbon Lining)

Immersion Medium	Temperature Conditions	Resistance
ASTM No1 Oil	150°C	Excellent
ASTM No3 Oil	150°C	Excellent
ASTM Fuel B	40°C	Excellent

The values shown above have been arrived at through the use of immersion tests. Service conditions, however, are usually less severe than immersion tests, as the rubber may only be splashed or partly exposed to the particular medium. Figures for other media are available on request.
The fluorocarbon lining has very low permeability and is inherently self-extinguishing in the case of fire.

Knitted Polyester Fabric

Description	Fine Mesh
Yarn Type	100% Polyester
Finish	Scour & Set
Bursting Strength (Fabric) (7" Internal Dia. Ring)	33psi
Extensibility at Burst	60%
Thickness	0.022" (0.56mm)

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Spring Steel Wire Helix (where applicable)
Constructed from galvanised spring steel wire (to BS5216 HS3) at a spacing of 2-3 tpi, and buried between the plies.

Certificates of Conformity

Certificates of conformity can be supplied with deliveries if required.