Silicone hose systems designed
for precision and performance

DS008

Flexible Convoluted Outer Silicone Hose with Polyester Reinforcement & an Embedded Wire Helix

For more information or data, please visit www.silflex.com or contact us
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MADE IN BRITAIN

General Use

Silflex 'Superflex' is a flexible hose which has been specifically designed for the demanding requirements of truck, bus and rail applications and meets or exceeds the requirements of SAE J20 R1 Class A. It is primarily designed for use in coolant and heating systems, and is not adversely affected by anti-freeze solutions, although care should be taken when using OAT coolants in certain application. The design allows for a higher flexibility than standard hose, and the wire helix will allow the hose to perform at negative pressures (not full vacuum).

Working Temperature Range: -50°C to +180°C.

Working Pressures: See Page 2.

Construction

Silicone, reinforced with 3 plies of polyester fabric & an embedded galvanised spring steel wire helix.

Material Specifications

Silicone Rubber Compound

Colour: Various
Hardness (IHRD) : 65 ± 5
Specific Gravity (g/cm3): 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 can be supplied on request.

Knitted Polyester Fabric

Description: Fine Mesh
Yarn Type: 100% Polyester
Finish: Pad Scour & Heat Set
Bursting Strength (Fabric) (7" Internal Dia. Ring): 33psi
Extensibility at Burst: 60%
Thickness: 0.5mm ±0.1mm

Spring Steel Wire Helix (where applicable)

Constructed from galvanised spring steel wire (to BS5216 HS3 / EN 10270-1) at a spacing of 2 tpi and embedded between the plies.

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Certificates of Conformity

Certificates of conformity can be supplied with deliveries if required.

Burst and Working Pressure Guidelines for 3 Ply Polyester Reinforced Hoses

	3 Ply Hoses				
Bore Size	Burst Pressure		Recommended Max. Operating Pressure		Min. Inside Bend Radius
mm	Bar	Psi	Bar	Psi	mm
6.5	76.6	1126	19.2	282	11
8	64.2	944	16.1	237	12.5
9.5	55.4	814	13.9	204	14
11	48.9	719	12.2	179	17.5
12.7	42.4	623	10.6	156	25
15.8	35.5	522	8.9	131	28
19	30.6	450	7.7	113	35
20	29.3	431	7.3	107	38
22	27.0	397	6.8	100	41
25	24.2	356	6.1	90	45
28	22.0	323	5.5	81	63.5
30	20.7	304	5.2	76	76.5
32	19.6	288	4.9	72	95
35	18.1	266	4.5	66	100
38	16.9	248	4.2	62	140
41	15.8	232	4.0	59	160
44.5	14.6	215	3.7	54	250
48	13.8	203	3.5	51	290
51	13.1	193	3.3	49	330

All figures apply to shaped hoses and hoses up to 1m long. Please enquire for longer lengths. All figures are taken from Silflex Ltd test data. All data developed by burst profiling at standard conditions. Performance characteristics are dependent on the environment. Operating parameters will deviate in differing operating environments.

Maximum Operating pressures defined by a ratio of 4:1. This is only a guide pressure; each application should be assessed individually.