

Silicone Turbocharger Hose With Woven Meta-Aramid Reinforcement

Silflex Limited

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This Data Sheet Covers the Following Hose Types:

XSHL, XE90, XE45, XCAC, XSCH, XSHH, XSR, XRE90

General Use

Samco®Xtreme turbo hose has been specifically designed for the demanding requirements of the motorsport and fast road car tuning markets. Standard Samco®Xtreme hoses are primarily designed for use in turbocharger/intercooler systems with hot air. Hoses can also be made with an oil resistant fluorosilicone lining if required. They can also be used in many other applications where the properties of silicone are preferable to those of other rubbers, or where a flexible joint is required between rigid pipes.

Working Temperature Range: -50°C to +250°C.

Working Pressures: Dependant on hose construction and customer requirements.

Construction

Plies of silicone, reinforced with Aramid fabric. The number of plies will vary depending on the working pressure, bore size, and required wall thickness. A galvanised spring steel wire helix may also be added for high or low-pressure applications, or where extra flexibility is required and oil resistant fluorosilicone can also be added if required.

Materials Specifications

Silicone Rubber Compound

Colour	Various (R.I.O. as Standard)
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 can be supplied on request.

Woven Meta-Aramid Fabric

Description	Fine Weave (Plain)
Yarn Type	100% Woven Spun Meta Aramid
Finish	Scour & Set
Thickness	0.44mm

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.

Burst and Working Pressure
Guidelines for Samco Sport Xtreme
4 Ply Aramid Reinforced Silicone Hoses

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I.D.		Number Of Plies	Typical Wall Thickness (mm)	Burst pressure		Recommended Max. Working Pressure @ 4:1 safety Factor	
(mm)	(")			(Psi)	(Bar)	(Psi)	(Bar)
6.5mm	1/4"	4	4mm	1585	109.3	396.3	27.3
8mm	5/16"	4	4mm	1314	90.6	328.5	22.7
9.5mm	3/8"	4	4mm	1126	77.6	281.5	19.4
11mm	7/16"	4	4mm	986	68.0	246.5	17.0
12.7mm	1/2"	4	4mm	850	58.6	212.5	14.7
16mm	5/8"	4	4mm	705	48.6	176.3	12.2
19mm	3/4"	4	4mm	603	41.6	150.8	10.4
22mm	7/8"	4	4mm	529	36.5	132.3	9.1
25mm	1"	4	4mm	471	32.5	117.8	8.1
28mm	1 1/8"	4	4mm	426	29.4	106.5	7.4
30mm	1 3/16"	4	4mm	400	27.6	100.0	6.9
32mm	1 1/4"	4	4mm	377	26.0	94.3	6.5
35mm	1 3/8"	4	4mm	348	24.0	87.0	6.0
38mm	1 1/2"	4	4mm	323	22.3	80.8	5.6
41mm	1 5/8"	4	4mm	302	20.8	75.5	5.2
45mm	1 3/4"	4	4mm	278	19.2	69.5	4.8
48mm	1 7/8"	4	4mm	263	18.1	65.8	4.5
51mm	2"	4	4mm	248	17.1	62.0	4.3
54mm	2 1/8"	4	4mm	236	16.3	59.0	4.1
57mm	2 1/4"	4	4mm	225	15.5	56.3	3.9
60mm	2 3/8"	4	4mm	215	14.8	53.8	3.7
63mm	2 1/2"	4	4mm	205	14.1	51.3	3.5
65mm	2 9/16"	4	4mm	200	13.8	50.0	3.5
68mm	2 11/16"	4	4mm	191	13.2	47.8	3.3
70mm	2 3/4"	4	4mm	187	12.9	46.8	3.2
76mm	3"	4	4mm	174	12.0	43.5	3.0
80mm	3 1/8"	4	4mm	165	11.4	41.3	2.9
83mm	3 1/4"	4	4mm	160	11.0	40.0	2.8
89mm	3 1/2"	4	4mm	151	10.4	37.8	2.6
102mm	4"	4	4mm	133	9.2	33.3	2.3

This data applies to all standard Xtreme hoses in the Samco Sport range.