



Silicone hose systems designed  
for precision and performance

# DS015

## Fluorosilicone Lined Silicone

## Turbocharger Hose With Woven Meta-Aramid Reinforcement

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



## General Use

Silflex Fluorosilicone lined turbocharger hose has been specifically designed for the demanding requirements of truck, bus and rail applications. It is primarily designed for use in turbocharger systems & intercooler systems where the medium flowing through the hose is likely to degrade the standard silicone. Examples of this are Fuel Oils, Diesel Fuel, etc.

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

Working Pressures: Dependant on hose construction and customer requirements.

## Construction

A lining of Black Fluorosilicone, covered with Plies of silicone, reinforced with Aramid fabric. The number of plies will vary depending on the working pressure, bore size, and required wall thickness. In some applications a further Fluorosilicone liner is added to the outside of the hose. A blended fluorosilicone is also available for applications such as oil/air mist intercooler hoses, etc. A galvanised spring steel wire helix may also be added for high or low-pressure applications, or where extra flexibility is required.

## Material Specifications

### Fluorosilicone Rubber Compound

Colour	Black
Hardness (IHRD)	60 ± 5
Specific Gravity (g/cm <sup>3</sup> )	1.59 ± 0.05
Tensile Strength (Mpa)	5
Elongation at Break (%)	210
Tear Strength (KN/m)	23

### Silicone Rubber Compound

Colour	Various
Hardness (IHRD)	65 ± 5
Specific Gravity (g/cm <sup>3</sup> )	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 & Silane Treated
Thickness	0.42mm ±0.03mm
Tensile (N/50mm) BS EN 13934	700 Min
Extension at Break (%) BS EN 13934	40 Max

**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.

**Fluorosilicone Lined Silicone Turbocharger Hose with Woven Meta-Aramid Reinforcement**

I.D. (mm)	I.D. (inches)	Maximum Length	3 Ply		4 Ply	
			Silflex Reference	Maximum Pressure (Bar)	Silflex Reference	Maximum Pressure (bar)
6.5	1/4"	3m	LT3FL/6.5/1000	19.5	LT4FL/6.5/1000	27.3
8	5/16"	3m	LT3FL/8/1000	16.3	LT4FL/8/1000	22.7
9.5	3/8"	3m	LT3FL/9.5/1000	14.1	LT4FL/9.5/1000	19.4
11	7/16"	1m	LT3FL/11/1000	12.4	LT4FL/11/1000	17
12.7	1/2"	4m	LT3FL/12.7/1000	10.7	LT4FL/12.7/1000	14.6
15.8	5/8"	3m	LT3FL/16/1000	9	LT4FL/16/1000	12.1
18		3m	LT3FL/18/1000	8.1	LT4FL/18/1000	10.9
19	3/4"	4m	LT3FL/19/1000	7.7	LT4FL/19/1000	10.4
20		3m	LT3FL/20/1000	7.4	LT4FL/20/1000	9.9
22	7/8"	4m	LT3FL/22/1000	6.8	LT4FL/22/1000	9.1
25	1"	4m	LT3FL/25/1000	6.1	LT4FL/25/1000	8.1



28.5	1 <sup>1</sup> / <sub>8</sub> "	4m	LT3FL/28/1000	5.5	LT4FL/28/1000	7.3
30		3m	LT3FL/30/1000	5.2	LT4FL/30/1000	6.9
32	1 <sup>1</sup> / <sub>4</sub> "	4m	LT3FL/32/1000	4.9	LT4FL/32/1000	6.5
35	1 <sup>3</sup> / <sub>8</sub> "	4m	LT3FL/35/1000	4.6	LT4FL/35/1000	6
38	1 <sup>1</sup> / <sub>2</sub> "	4m	LT3FL/38/1000	4.2	LT4FL/38/1000	5.6
40		1m	LT3FL/40/1000	4.1	LT4FL/40/1000	5.3
41	1 <sup>5</sup> / <sub>8</sub> "	3m	LT3FL/41/1000	4	LT4FL/41/1000	5.2
44.5	1 <sup>3</sup> / <sub>4</sub> "	4m	LT3FL/45/1000	3.7	LT4FL/45/1000	4.8
48	1 <sup>7</sup> / <sub>8</sub> "	3m	LT3FL/48/1000	3.5	LT4FL/48/1000	4.5
50		1m	LT3FL/50/1000	3.4	LT4FL/50/1000	4.4
50.8	2"	4m	LT3FL/51/1000	3.3	LT4FL/51/1000	4.3
54	2 <sup>1</sup> / <sub>8</sub> "	3m	LT3FL/54/1000	3.1	LT4FL/54/1000	4.1
57	2 <sup>1</sup> / <sub>4</sub> "	3m	LT3FL/57/1000	3	LT4FL/57/1000	3.9
60	2 <sup>3</sup> / <sub>8</sub> "	3m	LT3FL/60/1000	2.9	LT4FL/60/1000	3.7
63.5	2 <sup>1</sup> / <sub>2</sub> "	4m	LT3FL/63/1000	2.7	LT4FL/63/1000	3.5
65	2 <sup>9</sup> / <sub>16</sub> "	1m	LT3FL/65/1000	2.7	LT4FL/65/1000	3.4
67	2 <sup>5</sup> / <sub>8</sub> "	1m	LT3FL/67/1000	2.6	LT4FL/67/1000	3.3
70	2 <sup>3</sup> / <sub>4</sub> "	3m	LT3FL/70/1000	2.5	LT4FL/70/1000	3.2
76	3"	3m	LT3FL/76/1000	2.3	LT4FL/76/1000	3
80	3 <sup>1</sup> / <sub>8</sub> "	1m	LT3FL/80/1000	2.2	LT4FL/80/1000	2.9
88.9	3 <sup>1</sup> / <sub>2</sub> "	1.5m	LT3FL/89/1000	2	LT4FL/89/1000	2.6
90		1m	LT3FL/90/1000	2	LT4FL/90/1000	2.6
95	3 <sup>3</sup> / <sub>4</sub> "	1m	LT3FL/95/1000	1.9	LT4FL/95/1000	2.4
102	4"	4m	LT3FL/102/1000	1.8	LT4FL/102/1000	2.3
114	4 <sup>1</sup> / <sub>2</sub> "	1m	LT3FL/114/1000	1.6	LT4FL/114/1000	2.1
127	5"	1m	LT3FL/127/1000	1.5	LT4FL/127/1000	1.9
152	6"	3m	LT3FL/152/1000	1.3	LT4FL/152/1000	1.6

***Maximum working pressures have been calculated using a safety factor of 4:1, from tested burst pressures***

