



Silicone hose systems designed  
for precision and performance

# DS016

## Grey Flame Retardant Silicone Hose With Aramid Fabric 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 flame retardant hose has been specifically designed for the demanding requirements of mass transit applications. Generally, it is used in applications that require the material to be flame-retardant and give off low smoke & low toxic fumes.

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

Working pressures: dependant on hose construction and customer requirements.

### Construction

Plies of flame-retardant 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.

### Material Specifications

#### **Flame Retardant Silicone Rubber Compound**

This compound has been tested against BS6853 & AFNOR NFF 16-101. It is classified as category II AGAINST BS 6853 & AS F1,IO against NFF16-101.

It has also been tested to the newer standard EN 45545-2:2020 and is classified as follows

R22 & R23 – HL1, HL2 & HL3

Table 2 (7 of 7)

Product No	Name	Details	Requirement
M	Mechanical equipment		
M2	Hoses - Interior	Pipes and hoses for fuel, oils, hydraulics, pneumatics, water and drainage	R22
M3	Hoses - Exterior	Pipes and hoses for fuel, oils, hydraulics, pneumatics, water and drainage	R23

Colour	Grey
Hardness (IHRD)	70 ± 5
Specific Gravity (g/cm <sup>3</sup> )	1.28 ± 0.05
Tensile Strength (Mpa)	10.2
Elongation at Break (%)	320
Tear Strength (KN/m)	19

**Knitted Aramid Fabric**

Description	Fine Mesh
Yarn Type	100% Aramid
Finish	Scour & Set (with Resin)
Bursting Strength (Fabric) (7.98cm Dia. Ring)	258 Kpa
Weight	115g/cm <sup>2</sup>
Extensibility at Burst	25-35%

Other Aramid fabrics are also available depending on the working parameters of the hose.

**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.

