



DATA SHEET

SILICONE/ POLYESTER AUTOMOTIVE AND MARINE/INDUSTRIAL HOSES

- 3 ply polyester reinforced -standard sizes, all hoses up to an internal diameter of 50mm)
- 4 ply polyester reinforced for larger diameter to provide better pressure resistance.
- Our reinforced silicone hoses undergo extensive physical, chemical and dynamic testing to perfectly match industry needs
- Temperature range: -70°F to +350°F (-56°C to +177°C)
- Meets or Exceeds requirements SAEJ20 R4 Class A
- Available with the option of Fluorosilicone lining for added oil/acids/fuel resistance or FKM/Viton® lining for diesel combustion by-products/exhaust gas recycle.
- Available in a host of colours (specify the RAL code # in your enquiry)

APPLICATIONS

Coolant, Air, Water transfer. Also suitable for polar liquids, such as polyhydric alcohols, low-molecular ketones. Silicone rubber has good resistance to aqueous solutions of weak acids, alkalis or salts and low concentrated coolants like glycols. Silicone rubber has excellent resistance to Air, Ozone and UV radiation.

NOT SUITABLE FOR

Non- polar liquids such as hydrocarbons, mineral oils and greases. Strongly attacked by concentrated acids and alkalis, particularly by oxidizing acids such as sulfuric or nitric acid. Also, Silicone Rubber is not suitable for coolants containing high-concentration of ethyl-hexanoic acids and sebacate or coolants with very high pH level.



BURST PRESSURES OF TYPICAL SILICONE/ POLYESTER HOSES:

ID (mm)	Burst Pressure (Bar)	ID (mm)	Burst Pressure (Bar)
6.00	41.2	38.00	13.9
8.00	38.6	45.00	11.2
12.00	28.5	50.80	10.2
15.00	22.3	55.00	9.5
18.00	21.1	63.00	7.9
22.00	17.8	70.00	6.8
25.00	16.7	75.00	6.1
28.00	16.1	89.00	5.5
32.00	14.7	102.00	5.0

OTHER PHYSICAL PROPERTIES

Shore hardness (Shore A)	70 ±5
Tensile strength (MPa)	7.08
Elongation Break (%)	258
Compression set (%) 70hrs@125°C	21.3

CHANGE IN PROPERTIES FOLLOWING HEAT-AGEING @ 175°C FOR 70HRS

Change in harness (shore A)	+3
% change in Tensile strength	-11.68
% change in elongation break	-22.76

Certificate No. 0372

SILEX LIMITED

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