



Shore Auto Rubber Exports Pvt. Ltd.

Regd. Office: S.No.5, Devkar Plaza, Shop No.5, Shantinagar, Bhosari, Pune-411039. (Maharashtra (INDIA))

Works: Gat No.7, Post-Chimbli, Tal-Khed, Dist-Pune-410 501

CIN. No.: U-25199-PN-2003-PTC-018550 Date: 13.11.2003

Phone # +91-2135-612570/72, **FAX #:** +91-80-66886061

E-mail: kishore@shorerubber.com **Website:** www.shorehoses.com

SILICONE/POLYESTER 'AUTOMOTIVE' AND 'INDUSTRIAL' HOSES

Unless otherwise stated, our standard Reinforced Silicone Rubber Hoses have 3 plies of Polyester reinforcement – this applies to all hoses up to an Internal Diameter of 50mm. For larger diameter hoses we use 4 plies of the same reinforcement 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

APPLICATIONS: Coolant, Air, and 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, low concentrated coolants like glycols. Silicone Rubber has good 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 coolants containing high-concentration of ethyl-hexanoic acids and sebacate, or coolants with very high pH levels.

Available in a host of colours (specify the RAL code # in your enquiry...as simple as that)





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Burst Pressures of typical Silicone/Polyester Hoses:

| <u>ID (mm)</u> | <u>Burst Pressure (Bar)</u> | <u>ID (mm)</u> | <u>Burst Pressure (Bar)</u> |
|-----------------------|------------------------------------|-----------------------|------------------------------------|
| 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 |

*Vacuum Pressures also available on demand

Other Physical Properties:

| | |
|--|---------|
| Shore Hardness (Shore A) | 70 +/-5 |
| Tensile Strength (MPa) | 7.08 |
| Elongation at Break (%) | 258 |
| Compression Set (%) 70 hours at 125°C | 21.3 |

Change in Properties following Heat-Ageing at 175°C for 70 hours.

| | |
|---------------------------------|--------|
| Change in Hardness (Shore A) | +3 |
| % Change in Tensile Strength | -11.68 |
| % Change in Elongation at Break | -22.76 |

Note: Hoses with Improved Results can be supplied (for example for higher temperature resistance) on customers' specific demand.