

**Silflex Limited**

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# General Chemical Resistance of Silicone Rubber

<u>Fluid/Media</u>	<u>Silicone</u>	<u>Fluorosilicone</u>
Acetic Acid Concentrate (20°C)	Good	Good
Acetic Anhydride (20°C)	Excellent	Good
Acetone (56°C)	Good	Poor
Ageing - Oxygen	Excellent	Excellent
Ageing - Ozone	Excellent	Excellent
Ageing - Weather	Excellent	Excellent
Alcohols	Very Good	Very Good
Aldehydes	Good	Poor
Alkalis	Very Good	Good
Amines	Good	Poor
Animal oils	Good	Excellent
Anti freeze/glycol (20°C)	Good	Excellent
Benzine 90/110 (20°C)	Poor	Good
Butanol (117°C)	Poor	Good
Caustic Sodium sol. 30% (20°C)	Good	Very Good
Chloroform	Poor	Good
Coconut oil (100°C)	Good	Very Good
Cyclohexane (20°C)	Fair	Good
Diesel fuel	Fair	Very Good
Ester - Alkyl Phosphates (Skydrol)	Good	Fair
Esters - Alkyl Phosphate	Good	Very Good
Esters - Silicate	Poor	Very Good
Ethanol (20°C)	Good	Very Good
Ethanol (78°C)	Fair	Very good
Ethers	Poor	Fair
Glycerol (100°C)	Good	Excellent
Hexane (90°C)	Fair	Good
Hydrocarbon fuels - Aliphatic	Fair	Excellent
Hydrocarbon fuels - Aromatic	Poor	Very Good
Hydrocarbons - Halogenated	Poor	Very Good
Hydrogen Peroxide 30% (20°C)	Good	Very Good
Isoprpanol (82°C)	Fair	Good
Jet fuel AI/JP5 (25°C)	Poor	Very Good
Jet fuel JP4 (25°C)	Poor	Very Good
Ketones	Poor	Fair
Margarine (100°C)	Good	Very Good
Methanol (65°C)	Good	Good
Mineral oil ASTM 1 (150°C)	Fair	Excellent
Mineral oil ASTM 3 (150°C)	Poor	Good
Motor oil SAE 30 (150°C)	Fair	Very Good
Nitric acid 10% (20°C)	Fair	Good
Olive oil (100°C)	Very Good	Very Good
Phosphoric acid 50% (20°C)	Good	Excellent
Phosphoric acid 85% (20°C)	Fair	Very good
Potassium dichromate 20% (20°C)	Very Good	Excellent
Silicone fluid A 100 (150°C)	Fair	Excellent
Silicone fluid A 500 (150°C)	Good	Excellent
Sodium carbonate sat (20°C)	Good	Excellent
Sodium Perchlorate 20% (20°C)	Good	Excellent
Sulphuric acid 10% (20°C)	Good	Very Good
Sulphuric acid 10% (80°C)	Poor	Fair
Toluene (20°C)	Poor	Good
Saturated steam	Fair	Good
Xylene (20°C)	Poor	Good

**KEY:**

Poor : Unsuitable  
Fair : Temporary Exposure  
Good/Very Good : Permanent Exposure under stress



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