

# Chemical Resistance of Silicone Rubber

Temperature °C	Silicone	Fluorosilicone
Acetic Acid Concentrate (20)	Good	Good
Acetic Anhydride (20°)	Excellent	Good
Acetone (56°)	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°)	Good	Excellent
Benzine 90/110 (20°)	Poor	Good
Butanol (117°)	Poor	Good
Caustic Sodium sol. 30% (20°)	Good	Very Good
Chloroform	Poor	Good
Coconut oil (100°)	Good	Very Good
Cyclohexane (20°)	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°)	Good	Very Good
Ethanol (78°)	Fair	Very good
Ethers	Poor	Fair
Glycerol (100°)	Good	Excellent
Hexane (90°)	Fair	Good
Hydrocarbon fuels - Aliphatic	Fair	Excellent
Hydrocarbon fuels - Aromatic	Poor	Very Good
Hydrocarbons - Halogenated	Poor	Very Good
Hydrogen Peroxide 30% (20°)	Good	Very Good
Isopropanol (82°)	Fair	Good
Jet fuel A1/JP5 (25°)	Poor	Very Good
Jet fuel JP4 (25°)	Poor	Very Good
Ketones	Poor	Fair
Margarine (100°)	Good	Very Good
Methanol (65°)	Good	Good
Mineral oil ASTM 1 (150°)	Fair	Excellent
Mineral oil ASTM 3 (150°)	Poor	Good
Motor oil SAE 30 (150°)	Fair	Very Good
Nitric acid 10% (20°)	Fair	Good
Olive oil (100°)	Very Good	Very Good
Phosphoric acid 50% (20°)	Good	Excellent
Phosphoric acid 85% (20°)	Fair	Very good
Potassium dichromate 20% (20°)	Very Good	Excellent
Silicone fluid A 100 (150°)	Fair	Excellent
Silicone fluid A 500 (150°)	Good	Excellent
Sodium carbonate sat (20°)	Good	Excellent
Sodium Perchlorate 20% (20°)	Good	Excellent
Sulphuric acid 10% (20°)	Good	Very Good
Sulphuric acid 10% (80°)	Poor	Fair
Toluene (20°)	Poor	Good
Saturated steam	Fair	Good
Xylene (20°)	Poor	Good

## KEY:

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