

Fluorosilicone Rubber

Description

Fluorosilicone rubber is an inorganic "hybrid" elastomer which combines the wide temperature range spectrum of silicone with some of the chemical resistance of fluorocarbon rubber. Primary use is in fuel delivery systems. Fluorosilicone rubber offers the best low temperature properties of any oil resistant rubber. Like all compounds based on silicone rubber, fluorosilicones have relatively low tear strength, abrasion resistance, and tensile strength, and therefore, are generally not suited to dynamic applications.

Composition

Fluorosilicone Rubber

Physical Properties*

	Excellent	Good	Fair	Poor
Abrasion resistance				•
Compression Set		•		
Elongation			•	
Flame resistance	•			
Gas permeability				•
Low temperature flexibility	•			
Tear resistance				•
Tensile strength			•	

Chemical Resistance*

	Excellent	Good	Fair	Poor
Automotive refrigerants	•			
Dilute acids	•			
Dilute alkalis	•			
Hydrocarbon fuels	•			
Ketones				•
Ozone	•			
Petroleum oils	•			
Silicone Fluids	•			
Steam			•	
Water	•			
Weather	•			

Operating Temperature

-65 to 450 °F

**Excellent, good, fair and poor are intended to serve as general guidelines only. Actual testing in the application environment is always recommended.*