Fluorosilicone (FVMQ)

ASTM D1418 & ISO 1629 Designation: **FVMQ**
ASTM D2000, SAE J200 Type/Class: **FK**
Mil-R-3065 (Mil-Std 417) Class: **TA**

Ames Rubber Manufacturing
Ames Industrial • DWA Industrial • Avon Rubber • Armco

Advantages: Superior as static seal. Resists solvents, fuel and oil while maintaining low compression set and high resiliency. Excellent weathering, ozone and heat resistance. Good for special applications where general resistance to oxidizing chemicals, aromatic and chlorinated solvent bases are required.

Limitations: High friction tendencies, limited strength and poor abrasion resistance disqualifies it for dynamic uses.

Physical & Mechanical Properties	
Durometer or Hardness Range:	40-80 Shore A
Tensile Strength Range:	500 - 1,500 PSI
Elongation (Range%):	150% - 600%
Abrasion Resistance:	Poor
Adhesion to Metal:	Good
Adhesion to Rigid Materials:	Good
Compression Set:	Very Good
Flex Cracking Resistance:	Very Good
Impact Resistance:	Fair
Resilience/Rebound:	Good
Tear Resistance:	Poor
Vibration Dampening:	Fair

Thermal Properties	
General Temperature Range	-100°F to 450°F
Min. for continuous Use (Static):	-60°F
Brittle Point:	-90°F
Max. for Continuous Use (Static):	350°F

Environmental Performance	
Colorability:	Excellent
Flame Resistance:	Excellent
Gas Permeability:	Poor
Odor:	Good
Ozone Resistance:	Excellent
Oxidation Resistance:	Excellent
Radiation Resistance:	Good
Steam Resistance:	Fair
Sunlight Resistance:	Very Good
Weather Resistance:	Excellent
Water Resistance:	Very Good

Chemical Resistance	
Acids, Dilute:	Very Good
Acids, Concentrated:	Poor
Acids, Organic (Dilute):	---
Acids, Organic (Concentrated):	---
Alcohols:	Good
Aldehydes:	Poor
Alkalies, Dilute:	Very Good
Alkalies, Concentrated:	Very Good
Amines:	Poor
Animal & Vegetable Oils:	Very Good
Brake Fluids, Non-Petroleum Based:	Poor
Diester Oils:	Very Good
Esters, Alkyl Phosphate:	Fair to Poor
Esters, Aryl Phosphate:	Fair to Poor
Esthers:	---
Fuel, Aliphatic Hydrocarbon:	Very Good
Fuel, Aromatic Hydrocarbon:	Fair to Good
Fuel, Extended (Oxygenated):	Good
Halogenated Solvents:	Good to Excellent
Hydrocarbon, Halogenated:	Poor
Ketones (MEK, acetone):	Poor
Lacquer Solvents:	Good
LP Gases & Fuel Oils:	Poor
Mineral Oils:	Very Good
Oil Resistance:	Good
Petroleum Aromatic:	Very Good
Petroleum Non-Aromatic:	Very Good
Refrigerant Ammonia:	Poor
Refrigerant Halofluorocarbons:	---
Refrigerant Halofluorocarbons w/ Oil:	---
Silicone Oil:	Very Good
Solvent Resistance:	Excellent