



**Marco Compound # F1004  
 80 Durometer, Blue, AMS & MIL-R Compliant  
 Technical Datasheet**

**Common Names:**

Fluorosilicone, FVMQ

**General Description:**

Fluorosilicone is a widely-used elastomer that can be compounded to meet a wide range of applications. The mechanical and physical properties are very similar to silicone rubber. Fluorosilicone offers improved fuel and mineral oil resistance but weakened hot air resistance compared to silicone. Marco compound F1004 meets AMS and MIL specifications for use in Aerospace applications. Please contact [engineering@marcorubber.com](mailto:engineering@marcorubber.com) for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

**Features:**

- Meets MIL-DTL-25988C and AMS-R-25988 Class 1, Type I / Type II, Grade 80
- Excellent flexibility and resistance to compression set
- Excellent resistance to aging and weather-sunlight
- Resistance to oxidizing chemicals, animal and vegetable oils, fuels, aromatic and chlorinated solvents
- Resistant to diluted alkalis, diester oils, aliphatic and aromatic fluorocarbons, silicone oil, toluene, benzene, ozone and oxidative environments.

**Limitations:**

- Brake fluids, ketones, hydrazine, aldehydes, amines, ketones
- Poor abrasion resistance

**Service Temperature:**

-100 to 350° F

**Specification:**

AMS-R-25988 and MIL-R- 25988 Class 1, Type I / Type II, Grade 80

**PHYSICAL PROPERTIES**

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A, ASTM D2240	80 ± 5	83
Color	Blue	Blue
Tensile Strength, psi, ASTM D412	750 min.	900
Ultimate Elongation, %, ASTM D412	70 min.	181
Tear Strength, ppi, ASTM D624	40 min.	153
Specific Gravity, ASTM D297	-----	1.48

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.