Silicone Rubbers (VMQ)

Silicone rubbers are inorganic polymers with a silicone backbone attached to a pendant group consisting of methyl, phenyl, and vinyl. The side chain significantly affects the polymer's chemical and physical properties. VMQ has exceptional thermal and ozone resistance, well dielectric stability, and resistance to many chemicals, oils, and solvents. Silicone rubber has the best low-temperature flexibility among the rubber family. Silicone has limited tensile and tear strength, therefore, engineers need to be extra cautious while designing silicone components. Ascend Sealing supplies peroxide-cured standard silicone. We are also a provider of platinum-cured materials in medical and other low volatile applications.

General Information	
ASTM D1418 Designation	Q, MQ, VMQ, PVMQ
ISO/DIN 1629 Designation	Q, MQ, VMQ, PVMQ
ASTM D2000 / SAE J200 Codes	FC, FE, GE
Standard Color(s)	Rust
Hardness Range	20 – 90 Shore A

Temperature Range	
Standard Temperature	-76 °F – 437°F (-60 °C – 225 °C)
Special Compound Temperature	-148 °F – 572°F (-100 °C – 300 °C)

Ideal Application Environments

- Engine and Transmission oil
- Low concentrations of acids, bases, and salts
- Moderate water
- Dry heat
- Dilute acids
- Ozone and weather resistance

Not Suitable For

- Concentrated acids and alkalis
- Steam over 120°C
- Petroleum oil and fuel
- Ketones