

# SILICONE - VMQ

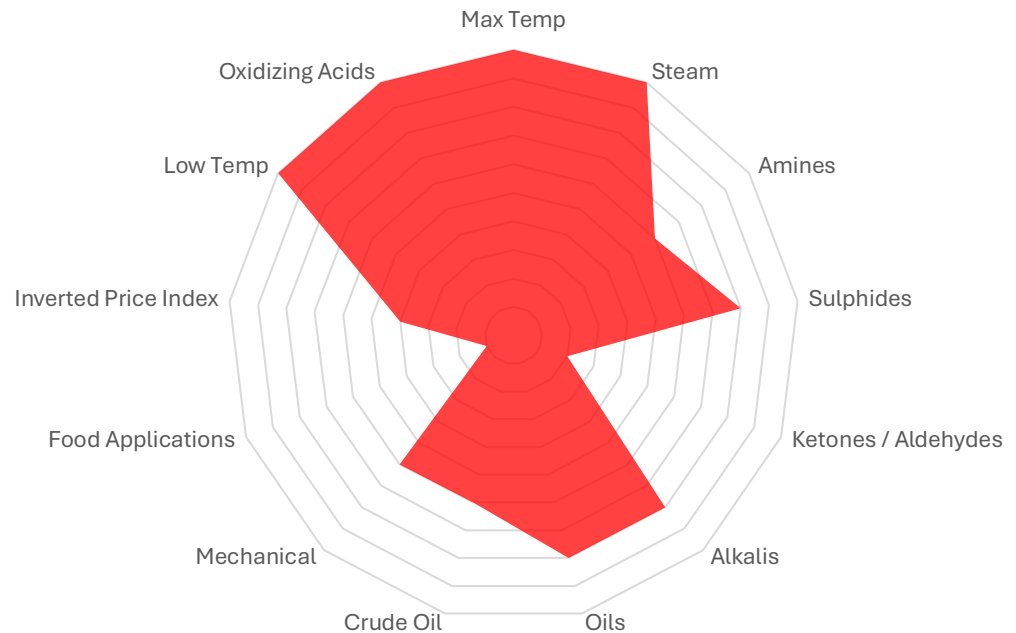
PHE VMQ Silicone is a peroxide cured silicone polymer. It has excellent resistance to both low and high temperatures, and will not degrade in the presence of steam. The PHE VMQ has a low compression set, which helps maintain strength and flexibility over extended time periods. It is compounded to the requirements of FDA section 177.2600 (e & f) for rubber materials in food contact & EC 1935/2004.

## Typical Applications

Refrigerant Ammonia  
Animal and Vegetable Oils  
High and Low Temperatures  
Pharmaceuticals  
Ozone Resistant

## Properties

Hardness 76 Shore A  
Tensile Strength 7 MPa  
200% Elongation at Break  
Max Continuous Temp 250°C  
Min Continuous Temp -60°C



**Note: The greater the distance from center, the better the suited the material is for against the application. This is a generalized overview. For specific applications, please contact PHE Gaskets for consult.**

# MATERIAL DATA SHEET (MDS)

PRODUCT: PHE VMQ - Silicone gaskets Edition 2026, Rev.1

## 1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Issued by: Bailey French, PHE Gaskets Incorporated, Knoxville, Tennessee 37917

Country: USA

Phone no: +1 (865) 249-7773

E-mail address: bfrench@phegaskets.com

Trade name: PHE VMQ - Silicone Article numbers: 6th and 7th digit = 45 (x x x x x 45)

Color Identification: Black rubber gasket with one red dot.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Peroxide cured VMQ, carbon black, softener, curatives, and antioxidants and processing aids.

## 3. HAZARD IDENTIFICATION

General Information: Non-labeled product according to US/EU-regulations.

Special attention should be paid to the following areas:

\* Particles can cause damage or irritation on the eye surface.

\* Sensitive persons can obtain skin irritation by unprotected handling of the product

## 4. FIRST-AID MEASURES

Emergency first aid procedures: Eye contact: Flush with water, consult physician.

Skin contact: Wash with soap and water. Ingestion: As with swallowing any foreign substance, consult physician.

## 5. FIRE FIGHTING MEASURES

The material consists of organic raw materials known to be flammable. In case of fire, follow the instructions given by appropriate firefighting authorities.

Flammable/Combustible: Yes, at very high temperatures far above 200°C, in presence of an ignition source. Extinguishing Media: Water spray, high expansion foam or powder. Special firefighting instructions: Treat as hydrocarbon fire. Main hazardous combustion products: Carbon dioxide, carbon monoxide, nitrogen oxides, hydrocarbons (alcohols, aldehydes, ketones)

## 6. ACCIDENTAL RELEASE MEASURES

Waste disposal methods: Dispose of in accordance with local, state and federal regulations

## 7. HANDLING AND STORAGE

Treat as normal rubber products.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: Only when buffing or at temperatures above 100°C.

Protective gloves: Not normally required at normal use (unless person is especially sensitive to the product) Eye protection: As required Hygienic work practices: Industrial hygiene and safety practices should be observed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid Odor: Very low Appearance: Black material with two green dots Specific gravity: 1.59-1.61 g/ml Free monomers: Traces Melting point: Not applicable

## 10. STABILITY AND REACTIVITY

Chemical stable: Yes

Hazardous polymerization: Will not occur

## 11. TOXICOLOGICAL INFORMATION

Could cause skin irritation, or allergy, for some very sensitive persons.

## 12. ECOLOGICAL INFORMATION

General Information: The products are very resistant to biodegradability, and not known to be eco-toxic.

## 13. DISPOSAL CONSIDERATIONS

The products may be disposed as land filling, or be burned like other rubber or plastic products.

## 14. TRANSPORT INFORMATION

No special precautions are necessary when transporting the product.

## 15. REGULATORY INFORMATION

No labels are needed. See local and federal regulations.

## 16. OTHER INFORMATION

The product is cured rubber. When exposed to higher temperatures, the lifetime of the product will decrease.