

# Silico® MF2010-60,000 cSt Silicone Fluid

## Technical Data Sheet (TDS)

### Product Identification

Product Name: Silico® MF2010-60,000 cSt Silicone Fluid

Chemical Name: Polydimethylsiloxane (PDMS)

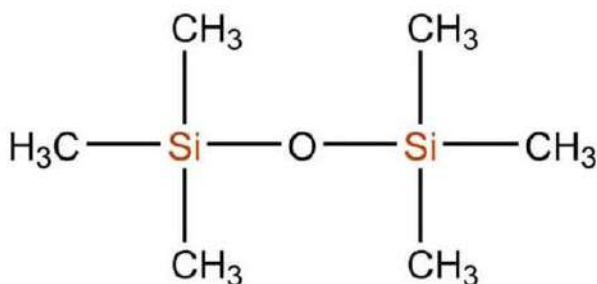
CAS No.: 63148-62-9

Molecular Structure: Linear dimethyl polysiloxane

Product Type: Ultra-high viscosity silicone fluid

Brand: Silico®

### Chemical Structure



### Product Description

Silico® MF2010-60,000 cSt Silicone Fluid is an ultra-high viscosity, linear PDMS silicone fluid designed for precision industrial systems requiring extreme film thickness, strong damping response, and long-term stability.

With a nominal viscosity of 60,000 cSt at 25 °C, this product delivers exceptional resistance to flow, shear, and migration, making it suitable for heavy-load lubrication, vibration damping, motion control, and dielectric insulation in demanding industrial environments.

### Typical Physical & Technical Properties

Property	Typical Value
Appearance	Clear, colorless, highly viscous liquid
Chemical Type	Polydimethylsiloxane (PDMS)

CAS Number	63148-62-9
Kinematic Viscosity (25 °C)	60,000 cSt
Density (25 °C)	~0.97 g/cm <sup>3</sup>
Refractive Index (25 °C)	~1.403
Surface Tension (25 °C)	~21.5 mN/m
Flash Point (Closed Cup)	≥ 315 °C
Pour Point	~ -50 °C
Solubility	Insoluble in water
Thermal Stability	Excellent
Dielectric Properties	High resistivity, stable insulation

Typical values are provided for reference only and are not intended as product specifications.

## Key Performance Characteristics

Ultra-high viscosity for thick, durable film formation

Excellent thermal and oxidative stability

Low volatility and high flash point

Chemically inert and material-compatible

Strong hydrophobicity and low surface tension

Stable dielectric properties for electrical applications

## Typical Applications

Precision damping and vibration control fluids

Heavy-viscosity lubrication for slow-moving or high-load components

Motion control and shock absorption systems

High-viscosity mold release agents

Dielectric and insulating fluids for electrical equipment

Base fluid for specialty formulations, coatings, and surface treatments

## Packaging, Storage & Handling

Packaging: 180 kg drums, 950 kg IBC totes

Storage Conditions: Cool, dry, well-ventilated area; keep containers sealed

Shelf Life: Up to 24 months under recommended conditions

Handling: Follow standard industrial hygiene practices; clean spills promptly to avoid slip hazards