

Technical Data Sheet (TDS)

Product Identification

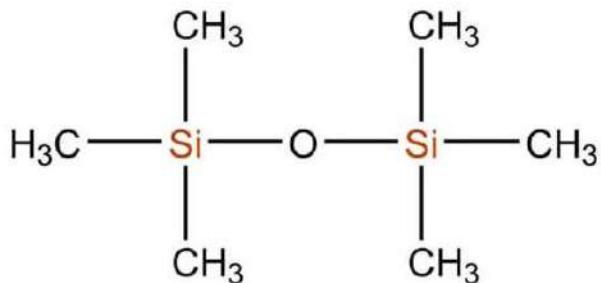
Product Name: Silico® MF2010-200 cSt Silicone Fluid

Chemical Name: Polydimethylsiloxane (PDMS)

CAS Number: 63148-62-9

Product Type: Linear dimethyl silicone fluid

Chemical Structure



Product Description

Silico® MF2010-200 cSt Silicone Fluid is a high-purity, linear polydimethylsiloxane (PDMS) silicone oil with a nominal kinematic viscosity of 200 cSt at 25°C. It is formulated to provide a balanced combination of controlled medium viscosity, excellent thermal and oxidative stability, low surface tension, and chemical inertness.

This medium-viscosity PDMS silicone fluid delivers stable rheological behavior across a wide temperature range and is suitable for applications requiring enhanced damping, lubrication, electrical insulation, heat transfer, and surface performance.

Typical Physical & Technical Properties

Property	Typical Value
Appearance	Clear, colorless liquid
Chemical Structure	Linear PDMS

Kinematic Viscosity (25°C)	200 cSt
Density (25°C)	~0.970 g/cm³
Refractive Index (25°C)	~1.403
Flash Point (Closed Cup)	≥ 300°C
Auto-Ignition Temperature	≥ 400°C
Pour Point	≤ -50°C
Surface Tension (25°C)	~21.1 mN/m
Volatility (150°C, 24 h)	Low
Solubility in Water	Insoluble
Dielectric Properties	Good

Key Performance Features

Stable medium viscosity with controlled flow and damping

Excellent thermal and oxidative stability

Low surface energy for effective wetting and release

Hydrophobic and water-repellent

Chemically inert and non-corrosive

Low volatility and high flash point

Suitable for electrical and electronic applications

Typical Applications

Medium-viscosity industrial lubrication and shock damping

Heat transfer and thermal bath systems

Mold release agents for rubber and plastics

Damping fluids for precision instruments and control systems

Electrical insulation and dielectric fluids

Surface treatment, polishing, and coating formulations

Processing aids and formulation carrier fluids

Packaging & Storage

Packaging Options: 20 kg pails, 190 kg drums, IBC containers

Storage Conditions: Store in tightly closed original containers in a cool, dry, and well-ventilated area

Shelf Life: Up to 24 months under recommended storage conditions