Shandong Silico Silicone Materials Co., Ltd.
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Tel: +86-0538-5071566 ZIP: 271500
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Technical Data Sheet (TDS)

Product Identification

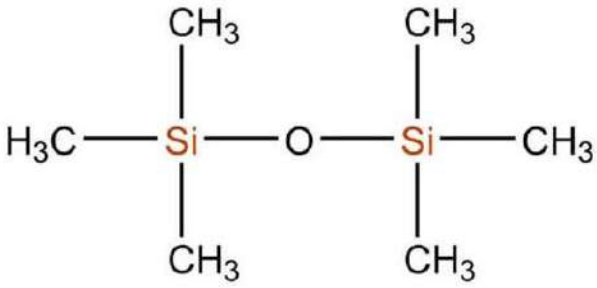
Product Name: Silico® MF2010-350 cSt Silicone Fluid

Chemical Name: Polydimethylsiloxane (PDMS)

CAS Number: 63148-62-9

Product Type: Linear medium-high viscosity silicone oil

Chemical Structure



Product Description

Silico® MF2010-350 cSt Silicone Fluid is a high-purity, non-food grade linear PDMS formulated to provide stable medium-high viscosity, excellent thermal stability, chemical inertness, and low surface tension. It is designed for industrial, mechanical, electrical, and process applications requiring consistent rheological behavior and long-term performance.

Typical Physical & Technical Properties

Property	Typical Value
Appearance	Clear, colorless liquid
Chemical Structure	Linear PDMS
Kinematic Viscosity (25°C)	350 cSt

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Density (25°C)	~0.970 g/cm³
Refractive Index (25°C)	~1.403
Surface Tension (25°C)	~21 mN/m
Flash Point (Closed Cup)	>300°C
Auto-Ignition Temperature	>400°C
Pour Point	~-50°C
Solubility	Insoluble in water; soluble in many organic solvents
Thermal Stability	Excellent
Dielectric Properties	High dielectric strength and resistivity

Key Performance Features

Medium-high viscosity for damping and shear stability

Excellent thermal and chemical resistance

Low surface tension and hydrophobic nature for effective wetting and release

Low volatility and high flash point for long-term industrial use

Strong dielectric properties for electrical insulation applications

Typical Applications

Industrial release agents for rubber, plastics, and metal casting

Damping and vibration control fluids in precision machinery

Lubricants for plastics, elastomers, and mechanical systems

Heat transfer and thermal bath fluids

Electrical insulation and dielectric fluids

Surface treatment, polishing, and specialty formulations

Process additives and anti-foam fluids

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Packaging & Storage

Packaging: 20 kg pails, 190 kg drums, IBC totes

Storage: Keep in sealed containers, in a cool, dry, well-ventilated area

Shelf Life: 24 months under recommended storage conditions

Handling: Follow standard industrial hygiene practices; avoid prolonged skin contact