

## SILISIL Silicone Oil 50 cSt – Technical Datasheet

---

### Key Features

- Excellent spreadability and lubrication
- Water-repellent and low surface energy
- Good thermal and oxidative stability
- Electrically insulating
- Non-toxic, odorless, tasteless
- Low volatility and vapor pressure
- Soluble in many organic solvents
- Low environmental and fire hazard

### Typical Properties (*Not for specification use*)

Property	Value
Viscosity at 25°C	50 cSt
Specific Gravity at 25°C	0.959
Refractive Index at 25°C	1.402
Color (APHA)	Max. 5
Flash Point (Open Cup)	280°C
Freezing Point	-55°C
Surface Tension @ 25°C	20.7 dynes/cm
Volatile Content @ 150°C	0.3%
Dielectric Strength @ 25°C	400 volts/mil
Volume Resistivity @ 25°C	$1.0 \times 10^{15}$ ohm·cm
Thermal Conductivity @ 50°C	0.00037 cal/cm·sec·°C
Coefficient of Expansion	0.00104 cc/cc/°C
Viscosity-Temperature Coefficient	0.59
Solubility in Water	Insoluble
Solubility in Aliphatic Solvents	High
Solubility in Aromatic Solvents	High
Solubility in Chlorinated Solvents	High

### Applications

- **Personal Care:** Skin conditioning, de-soaping agent, spread enhancer
- **Industrial:** Lubricant, release agent, polish additive, electrical insulator
- **General:** Antifoam additive, mold release, damping fluid

### Use Instructions

- Compatible with many organic solvents and propellants
- Emulsifiable with standard techniques
- Typical dosage:
  - 0.1–1% as a surface additive
  - 1–10% in skin creams or formulations

## **Storage & Handling**

- Store in sealed original containers below 60°C
- Avoid eye contact. Refer to SDS for safety details

## **Disclaimer**

The above information is based on current knowledge and experience. It is provided for guidance only and does not constitute a legally binding warranty. Compatibility and suitability for the intended use must be verified by the user through preliminary tests.