

## SILISIL® Silicone Oil 10 cSt

---

### Description:

**SILISIL® Silicone Oil 10 cSt is a low-viscosity polydimethylsiloxane (PDMS) fluid characterized by excellent lubricity, high thermal stability, and very low surface tension. The product is chemically inert, non-toxic, odorless, and tasteless, and is suitable for a wide range of technical and industrial applications.**

### Key features:

- Excellent wetting and lubricating effect
- Water-repellent with very low surface energy
- Good thermal and oxidative resistance
- Electrically insulating
- Non-toxic, odorless and tasteless
- Low volatility and low vapor pressure
- Soluble in many organic solvents
- Low environmental and fire risk

### Main areas of application:

- Lubricants for elastomer/plastic-on-metal applications
- Hydraulic fluid for low-temperature applications
- Dielectric medium (e.g., impregnation of capacitor paper)
- Thinner for RTV silicone systems
- Surfactant for styrene-butadiene foams
- General industrial applications such as:
  - Defoaming additive
  - Release agent
  - Damping fluid

### Processing instructions:

- Compatible with many organic solvents and propellants
- Emulsifiable using common emulsification techniques

### Typical dosages:

- 0.1–1% as a surface additive
- 1–10% in cosmetic or formulated applications (e.g. skin creams)

### Storage & Handling:

- Store in original, unopened containers
- Recommended storage temperature: below 60 °C
- Avoid eye contact
- Further safety-related information can be found in the safety data sheet (SDS)

**Technical Data :**

<b>Look</b>	Clear, colorless liquid
<b>Viscosity at 25 °C</b>	10 cSt
<b>Density at 25 °C</b>	0.930
<b>Refractive index at 25 °C</b>	1,399
<b>Flash point (open crucible)</b>	162 °C
<b>Freezing point</b>	-65 °C
<b>Surface tension at 25 °C</b>	20.1 dynes /cm
<b>Thermal conductivity</b>	~0.13 W/m·°C
<b>Viscosity-temperature coefficient</b>	~0.57
<b>Dielectric strength at 25 °C</b>	~14 kV/mm
<b>Dielectric constant at 25 °C (0.5–100 kHz)</b>	~2.6
<b>Dielectric loss factor at 25 °C (100 kHz)</b>	~1 × 10 <sup>-5</sup>
<b>Specific volume resistance at 25 °C</b>	~1 × 10 <sup>15</sup> Ω·cm

**Packaging:**

SILISIL® Silicone Oil 10 cSt is available as standard in 1000 kg, 200 kg, 25 kg, 5 kg and 1 kg containers. Other container sizes are available upon request.

**Safety instructions:**

Before handling the product, read the safety data sheet and ensure that you have all the information required for safe use.

**Important note:**

This document contains information provided to the best of our knowledge and belief, based on the current state of our understanding. This information is for guidance only and does not constitute any obligation on our part, particularly in the event of an infringement of third-party rights through the use of our products. This information should be supplemented by preliminary testing to ensure the product's suitability for its intended purpose.