



PSF-1cSt Pure Silicone Fluid Octamethyltrisiloxane

Super Low-Viscosity Silicone (CAS#107-51-7) INCI Name: Trisiloxane



PSF-1cSt has the viscosity of water

PSF-1cSt Pure Silicone Fluid is a 100% linear Polydimethylsiloxane composed mainly of Octamethyltrisiloxane (CAS#107-51-7) with a viscosity of 1cSt @ 25°C. The fluid is clear, colorless and essentially odorless.

PSF-1cSt Octamethyltrisiloxane is characterized by its low viscosity, high rate of evaporation, low pour point (-100°C), low VTC (viscosity change at temperature), low surface tension (high spreadability), and excellent lubrication. In closed systems, it is an excellent low temperature bath fluid and low temperature heat transfer fluid.

PSF-1cSt Octamethyltrisiloxane (Trisiloxane) is also used in a number of personal care products due to its excellent spreading and unique evaporation characteristics. It features good solubility in anhydrous alcohols and in a wide variety of solvents. In addition, it leaves no residue or build-up, has a transient effect, and a non-greasy feel.

SPECIFICATIONS

Product Code	PSF-1cSt
Chemical Family	Polydimethylsiloxane
Chemical name	Octamethyltrisiloxane
CAS No.	CAS 107-51-7
INCI Name	Trisiloxane
Appearance	Clear, colorless & odorless fluid
Flammability	HMIS 3
Minimum Order	1-gallon (3.785 liters)

FEATURES

- Super low viscosity...viscosity of water
- Excellent Lubrication
- Low Surface Tension
- High Spreadability
- High Compressibility
- 100% evaporation...excellent carrying agent
- Clear, Colorless, Odorless
- Excellent Low Temp Performance
- Low Pour Point: -100°C
- VOC Exempt

Typical Product Data

Viscosity @ 25°C	Specific Gravity	Viscosity -Temp Coefficient	Flash Point	Pour Point	Refractive Index	Surface tension	Boiling Point @ 760 mm
1cSt	0.818	0.37	37°C	-100°C	1.3825	17.4	151°C

Thermal Properties

Thermal Conductivity @ 50°C g cal/cm•sec• °C	Coeff. of Thermal Expansion cc/cc °C	Specific Heat J/g °C
0.00024	0.00134	2.0

* Thermal conductivity: 0.10 W/m °C

Packaging

1-gallon (3.785 liters).....3.08kg net wt.
5-gallon pail (18.9 liters).....15.4kg net wt.
55-gallon drum.....170kg net wt.

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Dielectric Properties

Dielectric Strength @ 25C volts/mil	Dielectric constant (100Hz) @ 25C	Volume Resistivity @ 25°C (ohm-cm)
350 volts/mil	2.29	5.0 x 10 ¹⁴

CAS Information

Octamethyltrisiloxane >85%.....CAS # 107-51-7

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