



# PSF-10cSt Pure Silicone Fluid

**Low Viscosity PDMS Silicone Oil / Polydimethylsiloxane (CAS # 63148-62-9)**



Pure Silicone Fluid 10cSt is a low viscosity 100% PDMS Silicone Oil with a viscosity slightly higher than water.

**PSF-10cSt Pure Silicone Fluid** is a clear & odorless 100% linear PDMS Silicone Oil/ Polydimethylsiloxane (CAS # 63148-62-9) with a viscosity of 10cSt (centistokes) @ 25°C. PSF-10cSt does not contain additives or solvents.

PSF-10cSt Pure Silicone Fluid is characterized by its low viscosity (close to water), hydrophobic nature, wide service temperature range, low V.T.C. (little viscosity change at both low and high temperatures), excellent lubricity, low surface tension (high spreadability), high dielectric strength, and inertness to virtually all components.

Due to its low viscosity and thermal properties, PSF-10cSt is widely used as a heat transfer / bath fluid, especially for systems that need to circulate or pump the fluid at low temperatures.

PSF-10cSt Silicone Fluid is chemically inert to most materials including Rubber, Plastics and Metals. It is widely used as a lubricant for O-rings, gaskets, valves and seals \*

*\*Not recommended for use on silicone rubber as swelling may occur*

Other uses include heat transfer fluid, low temperature bath fluid, lubricant for plastics and rubber parts, dielectric fluid, dielectric coolant, O-ring lubricant.

### Specifications

Product code	PSF-10cSt
Chemical Family	PDMS Silicone Oil
Chemical Name	Polydimethylsiloxane
INCI Name	Dimethicone
CAS#	63148-62-9
Appearance	Clear Colorless and Odorless Liquid
Minimum Order	1-gallon (3.785 liters)

### Features

- Low Viscosity
- Low Pour Point
- Excellent Lubrication for plastics and rubber
- Wide service temperature range
- Low viscosity changes at temperature
- Chemically Inert
- Low Surface Tension: High Spreadability
- Clear, Colorless, Odorless
- Hydrophobic
- High Dielectric Strength
- High Resistance to Oxidation

### Typical Product Data

Viscosity@ 25°C	Specific Gravity	Refractive Index	Viscosity-Temp Coefficient	Pour Point	Flash Point closed cup	Surface Tension dynes cm @ 25°C	Volatile content @ 70°C
10cSt	0.935	1.3990	0.56	-70°C	211°C	20.1	0.68%

### Thermal Properties

Thermal Conductivity @ 50°C g cal/cm•sec• °C	Specific Heat @ 25°C cal/g °C	Thermal Expansion cc/cc °C
0.00032	0.360	0.00108

### Packaging

1-gallon (3.785L).....	3.52kg net wt.
5-gallon pail (18.9L).....	17.6kg net wt.
55-gallon drum.....	190kg net wt.
F.O.B. Phila, PA U.S.A.	

### Dielectric Properties

Volume Resistivity	Dielectric constant 50Hz	Dielectric strength volts/mil
≥1	2.68	375

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