



# PSF-5cSt Pure Silicone Fluid

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



Pure Silicone Fluid 5cSt is a low viscosity 100% PDMS Silicone Oil with a viscosity slightly thicker than water.

**PSF-5cSt Pure Silicone Fluid** is a clear & odorless linear 100% PDMS Silicone Oil or Polydimethylsiloxane (CAS # 63148-62-9) with a viscosity of 5cSt (centistokes) @ 25°C.

PSF-5cSt Pure Silicone Fluid is characterized by its low viscosity (close to water), hydrophobic nature, wide service temperature range, low pour point, 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-5cSt is widely used as a heat transfer / bath fluid, especially for systems that need to circulate or pump the fluid at low temperatures.

PSF-5cSt 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-5cSt
Chemical Name	Polydimethylsiloxane / PDMS
INCI	Dimethicone
CAS #	63148-62-9
Appearance	Clear Liquid – Odorless & Tasteless
Viscosity Class	Low
Non-Flammable	Yes
Thermally Stable	Yes
Minimum Order	1-gallon (3.785 liters)

### Features

- Lowest viscosity that will not evaporate
- Excellent Lubrication for rubber & plastics
- Non-Flammable
- Low Pour Point
- Low Surface tension
- Low V.T.C (little viscosity change at both high & low temperatures)
- Chemically Inert
- High Compressibility

### Typical Product Data

Specific Gravity	Viscosity-Temp Coefficient	Flash Point	Pour Point	Refractive Index	Surface Tension	Vapor Pressure @ 25°C	Max volatility, % wt loss @ 150°C
0.918	0.54	135°C	-90°C	1.3970	19.7	1mmHg	90%

### Thermal Properties

Boiling Point	Thermal Conductivity @ 50°C g cal/cm•sec• °C	Thermal Expansion cc/cc °C	Specific Heat cal/g/ °C
>200°C	0.00028	0.00109	0.390

### Packaging

1-gallon (3.785L).....	3.45kg net wt.
5-gallon pail (18.9L).....	17.25kg net wt.
55-gallon drum.....	190kg net wt.
F.O.B. Phila, PA U.S.A.	

### Dielectric Properties

Volume Resistance @ 25°C	Dielectric constant 50Hz @ 25 °C	Dielectric strength volts/mil
1.0 x 10 <sup>15</sup>	2.60	375

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