

# PSF-5cSt Pure Silicone Fluid

## Low Viscosity PDMS Silicone Fluid (CAS # 63148-62-9)



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

**PSF-5cSt Pure Silicone Fluid** is a linear low viscosity 100% PDMS Silicone Oil or Polydimethylsiloxane (CAS # 63148-62-9) that has a viscosity of 5cSt (centistokes) @ 25°C. It does not contain additives or solvents.

**Pure Silicone Fluid 5cSt** is characterized by its low viscosity (close to water), low pour point, 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 high damping action (meets VV-D-1078 "Silicone as Damping Fluid"). It is the lowest viscosity that will not evaporate in an open system.

PSF-5cSt is widely used as a heat transfer fluid and bath fluid due to its low viscosity and thermal properties.

**PSF-5cSt Pure Silicone Fluid** is inert to virtually all O-rings, gaskets, valves and seals. It is an excellent lubricant for plastic, rubber and foam surfaces.

Other uses include: Damping Fluid, Low Temperature Bath Fluid, Heat Transfer Fluid, Dielectric Fluid, Rubber and Plastic lubricant, O-Ring lubricant.

### Specifications

Product code	PSF-5cSt
Chemical Name	Polydimethylsiloxane / PDMS
INCI/CTFA Name	Dimethicone
CAS #	63148-62-9
Appearance	Clear Liquid – Odorless & Tasteless
Viscosity Class	Low
Non-Flammable	Yes
Thermally Stable	Yes
Availability	1 – 5 – 55 gallon drums
Minimum Order	1-gallon (3.785 liters)

### Features

- Lowest viscosity that will not evaporate
- Excellent Lubrication
- Non-Flammable
- Low Pour Point
- Low Surface tension
- Low V.T.C (little viscosity change at both high and low temperatures)
- Chemically Inert
- High Compressibility
- High Damping Action...
- High Oxidation Resistance
- VOC exempt

### 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

### Dielectric Properties

Volume Resistance @ 25°C	Dielectric constant 50Hz @ 25 °C	Dielectric strength volts/mil
$1.0 \times 10^{15}$	2.60	375

### Packaging

1-gallon.....	3.45kg net wt.
5-gallon pail.....	17.25kg net wt.
55-gallon drum.....	190kg net wt.

F.O.B. Phila, PA U.S.A.

**For More Information, Contact:  
Silico Organosilicon Co., Inc.**

Daiyue Industrial Area, Taian,  
Shandong, China  
Tel: 86-0538-5076188  
Fax: 86-0538-5076188  
Email: info@silicorex.com  
Web: www.silicorex.com