

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 |

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. | |

Dielectric Properties

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

For More Info, Contact:

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