



Product Information

PSF-20cSt Pure Silicone Fluid

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



Pure Silicone Fluid 20cSt is low viscosity 100% PDMS Silicone oil with a viscosity slightly higher than water.

PSF-20cSt Pure Silicone Fluid is a low viscosity 100% PDMS Silicone Oil / Polydimethylsiloxane (CAS # 63148-62-9) with a viscosity of 20cSt (centistokes) @ 25°C/77°F. It does not contain additives or solvents.

PSF-20cSt Pure Silicone Fluid is characterized by its low viscosity, wide service temperature range, low V.T.C. (little viscosity change at both low and high temps), excellent lubricity, low surface tension, high dielectric strength, high damping action (meets VV-D-1078 Silicone as damping fluid), and high resistance to oxidation.

Due to its low viscosity and thermal properties, PSF-20cSt is widely used as a heat transfer / bath fluid, especially for systems that need to circulate or pump the fluid.

PSF-20cSt 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 *

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

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

Specifications

| | |
|----------------|--|
| Product Code | PSF-20cSt |
| Chemical Name | Polydimethylsiloxane / PDMS Silicone Oil |
| CAS No. | 63148-62-9 |
| INCI/CTFA Name | Dimethicone |
| Appearance | Clear, colorless & odorless fluid |
| Non-Flammable | Yes |
| Federal Spec | VV-D-1078 |
| Minimum Order | 1-gallon (3.785 liters) |

Features

- Low Viscosity
- Excellent Lubrication for rubber and plastic
- Non-Flammable
- Wide Service Temperature Range
- Low Pour Point
- Low Viscosity change at both low and high temps
- Chemically Inert
- High dielectric strength
- High Oxidation Resistance

Typical Properties

| Viscosity @ 25°C | Specific Gravity | Refractive Index | Pour Point | Flash Point | Boiling Point | Viscosity-temp coefficient | Surface Tension |
|------------------|------------------|------------------|------------|-------------|---------------|----------------------------|-----------------|
| 20cSt | 0.950 | 1.4000 | -65°C | 232°C | >200 °C | 0.59 | 20.6 |

Thermal Properties

| Thermal Conductivity @ 25°C g cal/cm•sec• °C | Thermal Expansion cc/cc °C | Specific Heat @ 25°C J/g °C |
|---|-------------------------------|--------------------------------|
| 0.00034 | 0.00107 | 1.6 |

Packaging

1-gallon (3.785 liters).....3.6kg net wt.
 5-gallon pail (18.9 liters).....18kg net wt.
 55-gallon drum.....190kg net wt.
 F.O.B. Phila, PA U.S.A.

Dielectric Properties

| Dielectric strength volts/mil | Volume Resistivity | Dielectric constant 50Hz |
|----------------------------------|------------------------|--------------------------|
| 375 | 1.0 x 10 ¹⁵ | 2.72 |

For More Info, Contact:

Clearco Products Co., Inc.

15 York Road
 Willow Grove, PA 19090
 U.S.A.

Tel: (215) 366-7860

Fax: (215) 366-7862

Email: info@clearcoproducts.com

Web: www.clearcoproducts.com