

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

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