



PSF-20cSt Silicone Damping Fluid

Low Viscosity 100% PDMS Silicone Damping Fluid (CAS# 63148-62-9)



PSF-20cSt Silicone Damping Fluid is a 100% PDMS silicone oil.

PSF-20cSt Silicone Damping Fluid is a low viscosity linear Polydimethylsiloxane (CAS# 63148-62-9) fluid with a viscosity of 20cSt (centistokes) @ 25°C.

PSF-20cSt Silicone Damping Fluid is characterized by its low viscosity, low pour point, hydrophobic nature, low V.T.C. (little viscosity increase even at extremely low temperature), low surface tension, excellent lubrication & high dielectric strength.

PSF-20cSt Damping Fluid meets the composition requirements (Polydimethylsiloxane) of Federal Spec VV-D-1078 *.

* PSF-Fluids are not formally certified or tested to VV-D-1078. *

It is used in a wide range of military and industrial applications to dampen vibration, dampen pulsation, and dampen torque in gauges instruments, level controllers, rotary dampers, temperature and process recorders, control valves, calibration equipment, flow meters, thermostats, & monitoring systems.

Due to its low viscosity & low pour point, PSF-20cSt Silicone Damping Fluid is particularly effective for use in instruments and gauges that will operate at extremely low temperatures. The fluid is hydrophobic and prevents humidity from entering the gauge/instrument housing. This is very important. At low temperatures, water condensation can freeze and cause damage to the sensitive parts within the gauge/instrument housing.

Specifications

Product code	PSF-20cSt
Chemical Name	Polydimethylsiloxane PDMS Silicone Oil
CAS No.	63148-62-9
Appearance	Clear & odorless fluid
Meets Requirements of NSN No.	9150-00-543-7219 9150-00-487-4219 9150-00-219-5229
Minimum Order	1-gallon (3.785 liters)

Features

- Dampen vibration in gauges, instruments, meters and avionic instruments
- Protects internal components against vibration, freezing & corrosion.
- Extends service life of gauges, instruments & meters
- Wide Service Temperature Range
- Low viscosity changes at temperature (low V.T.C.)
- Inert to virtually all O-rings, gaskets, seals & valves *
- High Dielectric Strength

* Not recommended for Silicone O-rings due to possibility of swelling

Typical Properties

Viscosity @ 25°C	Specific Gravity	Refractive Index	Pour Point	Flash Point	Boiling Point	Viscosity-temp coefficient	Surface Tension
20cSt	0.950	1.4009	-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 (3.785L).....3.6kg net wt.
 5-gallon pail (18.9L).....18kg net wt.
 55-gallon drum.....190kg net wt.

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Dielectric Properties

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

Viscosity @ temperature

Viscosity-Temperature-coefficient.....0.59
Viscosity @ 25°C.....20cSt (centistokes)
Viscosity @ 0°C.....35cSt
Viscosity @ -20°C.....60cSt
Viscosity @ -40°C.....125cSt

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