



Product Information

PSF-100,000cSt Silicone Damping Fluid

CAS # 63148-62-9 Polydimethylsiloxane...meets VV-D-1078 "Silicone as Damping Fluid"



PSF-100,000cSt is a high viscosity PDMS silicone that meets VV-D-1078 "Silicone as Damping Fluid"

PSF-100,000cSt Silicone Damping Fluid is a high viscosity linear Polydimethylsiloxane (CAS#63148-62-9) fluids with a viscosity of 100,000cSt (centistokes) @ 25°C.

PSF-100,000cSt Silicone Damping Fluid is a hydrophobic fluid that is characterized by its wide service temperature range, high oxidation resistance, high viscosity, high dielectric strength, high resistance to shear, low pour points, low V.T.C. (little viscosity change even at extremely low temperature), excellent lubrication & high damping action.

PSF-100,000cSt Silicone Damping Fluid meets Federal Spec **VV-D-1078 "Silicone as Damping Fluid"**. It is used in a wide range of military and industrial liquid filled gauges, level controllers, rotary dampers, temperature and process recorders, control valves, calibration equipment, flow meters, thermostats, dashpots, monitoring systems avionic gauges and aviation instruments to dampen vibration, dampen pulsation, and dampen torque.

PSF-100,000cSt Silicone Damping Fluid is particularly effective for use in instruments and gauges that will operate at a wide service temperature range. 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. Ultimately, **Silicone Damping Fluids** will extend the service life of the equipment that it fills and provide more accurate readings even in the harshest of conditions.

Specifications

Chemical Name	Polydimethylsiloxane
CAS #	63148-62-9
Appearance	Clear-colorless fluid
Meets NSN No.	9150-00-292-9609
Consistency	Honey
Minimum Order	1-gallon

Environmental & VOC Status

Clearco Pure Silicone Fluid is exempt from Federal VOC Regulations, including California (CARB) and OTC Regulations. It does not contribute to ozone depletion and global warming meets the following:

- RoHS Compliant
- HAP-free
- VOC Exempt

Features

- Dampen vibration in gauges, instruments, meters and avionic instruments
- Protects internal components against vibration, freezing and corrosion.
- Extends service life of gauges, instruments, meters and avionic instruments.
- Wide Service Temperature Range
- High Oxidation resistance
- Low viscosity change at temperature (low V.T.C.)
- Inert to virtually all o-rings, gaskets, seals and valves *
- Meets NSN 9150-00-024-9624
- High Dielectric Strength

* not recommended for Silicone o-rings due to possibility of swelling

Typical Product Data

Specific Gravity	Refractive Index	Pour Point	Flash Point	Surface Tension	Thermal Expansion cc/cc °C	Thermal Conductivity g/cal/cm/sec °C	Maximum Volatility % Wt @ 150°C	V.T.C.
0.977	1.4035	-41°C	321°C	21.5	0.00094	0.00038	0.23	0.61

Dielectric Properties

Dielectric Constant 50Hz	Dielectric Strength volts/mil
2.75	400

Packaging

1-gallon.....3.6kg net wt.
 5-gallon pail.....18kg net wt.
 55-gallon drum.....200kg net wt.

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

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