



PSF-12,500cSt Silicone Damping Fluid

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



Pure Silicone 12,500cSt is a high viscosity silicone with a consistency of honey.

PSF-12,500cSt Silicone Damping Fluid is a high viscosity linear Polydimethylsiloxane (CAS#63148-62-9) fluids with a viscosity of 12,500cSt (centistokes) @ 25°C.

PSF-12,500cSt 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-12,500cSt 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-12,500cSt 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
INCI Name	Dimethicone
CAS #	63148-62-9
Appearance	Clear-colorless fluid
Consistency	Honey
Federal Spec met	VV-D-1078
Meets NSN No	NSN 9150-00-024-9624
Thermally Stable	Yes
Minimum order	1-gallon

Features

<ul style="list-style-type: none"> 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 Open Cup	Surface Tension	Thermal expansion cc/cc °C	Thermal Conductivity g/cal/cs/sec °C	Maximum Volatility % wt @ 25C	V.T.C	Dielectric Constant 50Hz	Dielectric Strength volt/mil
0.975	1.4035	-46°C	315°C	21.5	0.00096	0.00038	0.23	0.61	2.75	400

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. In addition, it meets the following:

- RoHS Compliant
- HAP-free
- VOC Exempt

Packaging

1-gallon pail.....	8lb / 3.6kg
5-gallon pail.....	40lb / 18kg
4 x 5-gallon pails	
55-gallon drum.....	190kg to 200kg

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

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