

# PSF-100,000cSt Silicone Damping Fluid

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



Clearco Pure Silicone 100,000cSt is a high viscosity 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
INCI Name	Dimethicone
CAS #	63148-62-9
Federal Spec	VV-D-1078 Silicone as damping fluid
Meets NSN No.	9150-00-292-9609
Appearance	Clear-colorless fluid
Consistency	Honey
Minimum Order	1-gallon

### Features

<ul style="list-style-type: none"> <li>• Dampen vibration in gauges, instruments, meters and avionic instruments</li> <li>• Protects internal components against vibration, freezing and corrosion.</li> <li>• Extends service life of gauges, instruments, meters and avionic instruments.</li> <li>• Wide Service Temperature Range</li> <li>• High Oxidation resistance</li> <li>• Low viscosity change at temperature (low V.T.C.)</li> <li>• Inert to virtually all o-rings, gaskets, seals and valves *</li> <li>• Meets NSN 9150-00-024-9624</li> <li>• High Dielectric Strength</li> </ul>
* not recommended for Silicone o-rings due to possibility of swelling

### 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.	

### 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

### For More Information, Contact:

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