



PSF-12,500cSt Silicone Damping Fluid

CAS # 63148-62-9 Polydimethylsiloxane Silicone Oil



PSF-12,500cSt is a high viscosity PDMS silicone oil (CAS# 63148-62-9)

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

The fluid is characterized by its wide service temperature range, hydrophobic nature, high damping action, high dielectric strength, high resistance to shear, low V.T.C. (little viscosity changes at low and high temperatures), excellent lubrication & inertness.

PSF-12,500cSt meets the composition requirements (100% Polydimethylsiloxane/Dimethyl Polysiloxane) of VV-D-1078 Silicone as Damping Fluid. *

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

PSF-Silicone Damping Fluids are particularly effective for use in instruments and gauges that will operate at a wide service temperature range.

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

Specifications

Chemical Name	Polydimethylsiloxane
Viscosity	12,500cSt @ 25°C
CAS #	63148-62-9
Appearance	Clear-colorless fluid
Meets Requirements of NSN No	NSN 9150-00-024-9624
Minimum order qty	1-gallon (3.785L)

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 changes at temperature (low V.T.C.)
- Inert to virtually all O-rings, gaskets, seals and valves *
- 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 (3.785L).....	3.6kg net wt.
5-gallon pail (18.9L).....	18kg net wt.
55-gallon drum (200L).....	190kg net wt.
F.O.B. Phila, PA U.S.A.	

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