



Product Information

PSF-100,000cSt Silicone Damping Fluid

CAS # 63148-62-9 Polydimethylsiloxane...High Damping Action



PSF-100,000cSt is a high viscosity PDMS silicone oil (CAS# 63148-62-9)

PSF-100,000cSt Silicone Damping Fluid is a clear & odorless linear Polydimethylsiloxane Silicone Fluid (CAS#63148-62-9) with a viscosity of 100,000cSt (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-100,000cSt 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
CAS #	63148-62-9
Appearance	Clear-colorless fluid
Viscosity	100,000cSt @ 25°C
Meets Requirements NSN No.	9150-00-292-9609
Minimum Order	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 *
- Meets specifications of 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

Packaging

1-gallon (3.785L).....3.6kg net wt.
 5-gallon pail (18.9L).....18kg net wt.
 55-gallon drum (200L).....190kg net wt.

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