



PSF-10,000cSt Silicone Damping Fluid

High Viscosity Polydimethylsiloxane Fluid (CAS # 63148-62-9)



PSF-10,000cSt Silicone Damping Fluid is a high viscosity PDMS Polydimethylsiloxane (CAS# 63148-62-9)

PSF-10,000cSt Silicone Damping Fluid is a clear & odorless linear Polydimethylsiloxane Silicone Fluid (CAS#63148-62-9) with a viscosity of 10,000cSt (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-10,000cSt 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

Product code	PSF-10,000cSt
Viscosity	10,000cSt @ 25°C.
Chemical Name	Polydimethylsiloxane
CAS #	63148-62-9
Appearance	Clear, colorless odorless fluid
Meets Requirements NSN No.	9150-00-664-3829

Properties

Appearance	Clear
Specific Gravity	0.975
Refractive Index	1.4035
Flash Point (Open Cup)	315°C
Pour Point °C	-48°C
V.T.C.	0.61
Surface Tension @ 25°C	21.5
Thermal Conductivity g/cal/cm/sec °C	0.00038
Thermal Expansion cc/cc °C	0.00096
Dielectric Constant 50Hz	2.75
Dielectric Strength (volts/mil)	400

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

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.	

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

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