



PSF-5cSt Silicone Damping Fluid

Low Viscosity 100% PDMS Silicone Fluid (CAS No. 63148-62-9)



Pure Silicone Fluid 5cSt is a 100% PDMS Silicone Damping Fluid.

PSF-5cSt Silicone Damping Fluid is a low viscosity linear PDMS Silicone Fluid / Polydimethylsiloxane (CAS#63148-62-9) fluid with a viscosity of 5cSt (centistokes) @ 25°C.

PSF-5cSt Silicone Damping Fluid is characterized by its low viscosity, low pour point (-90°C), hydrophobic nature, low V.T.C. (little viscosity increase even at extremely low temperature), low surface tension, excellent lubrication & high dielectric strength.

PSF-5cSt Damping Fluid meets the composition requirements (Polydimethylsiloxane) of Federal Spec VV-D-1078 *.

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

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

Due to its low viscosity & low pour point, PSF-5cSt Damping Fluid is particularly effective for use in instruments and gauges that will operate at extremely low temperatures. 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.

Specifications

Product code	PSF-5cSt
Chemical Name	Polydimethylsiloxane PDMS Silicone
CAS #	63148-62-9
Appearance	Clear, colorless & odorless fluid
Meets requirements of NSN No's	NSN 9150-00-435-2712 NSN 9150-00-087-4046 NSN 9150-00-137-6343
Minimum Order	1-gallon (3.785 liters)

Features

- Dampen vibration in gauges, instruments & meters
- Protects internal components against vibration, freezing and corrosion.
- Extends service life of gauges, instruments, meters and avionics instruments.
- Excellent low service temperature range
- 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	Viscosity-Temp Coefficient	Flash Point	Pour Point	Refractive Index	Surface Tension	Vapor Pressure @ 25°C	Max volatility, % wt loss @ 150°C
0.918	0.54	135°C	-90°C	1.3970	19.7	1mmHg	90%

Thermal Properties

Boiling Point	Thermal Conductivity @ 50°C g cal/cm•sec• °C	Thermal Expansion cc/cc °C	Specific Heat cal/g/ °C
>200°C	0.00028	0.00109	0.390

Packaging

1-gallon (3.785L).....	3.45kg net wt.
5-gallon pail (18.9L).....	17.25kg net wt.
55-gallon drum (208L).....	190kg net wt.

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Dielectric Properties

Volume Resistance @ 25°C	Dielectric constant 50Hz @25 °C	Dielectric strength volts/mil
1.0 x 10 ¹⁵	2.60	375

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