



Product Information

PSF-10cSt Silicone Damping Fluid

Low Viscosity Silicone Damping Fluid (CAS# 63148-62-9)



PSF-10cSt Silicone Damping Fluid meets VV-D-1078 "Silicone as Damping Fluid".

PSF-10cSt Silicone Damping Fluid is a low viscosity linear PDMS Silicone / Polydimethylsiloxane (CAS#63148-62-9) fluid with a viscosity of 10cSt (centistokes) @ 25°C.

PSF-10cSt Silicone Damping Fluid is characterized by its low viscosity, low pour point, hydrophobic nature, low V.T.C. (little viscosity increase even at extremely low temperature), low surface tension, excellent lubrication & high dielectric strength.

PSF-10cSt 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-10cSt Silicone 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-10cSt
Chemical Family	PDMS Silicone
Chemical Name	Polydimethylsiloxane
CAS#	63148-62-9
Appearance	Clear, colorless, odorless
Meets specifications of NSN No's	NSN 9150-00-664-0111 NSN 9150-00-607-0897
Minimum Order	1-gallon (3.785 liters)

Features

- Dampen vibration in gauges, instruments, meters and avionic instruments
- Protects internal components against vibration, freezing and corrosion.
- Wide 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

Properties

Specific Gravity	Refractive Index	Pour Point	Flash Point (closed cup)	Surface Tension	Thermal Conductivity @ 25°C g/cal/cm/sec °C	Thermal Expansion cc/cc °C	Volatile content @ 70°C	Specific Heat @ 25°C
0.935	1.3990	-70°C	211°C	20.1	0.00032	0.00108	0.68%	0.360

Properties (cont'd)

Dielectric Constant	Dielectric Strength Volts/mil	Boiling Point	Molecular weight
2.68	375	>200°C	1,250

Packaging

1-gallon (3.785L).....	3.52kg net wt.
5-gallon pail (18.9L).....	17.6kg net wt.
55-gallon drum.....	190kg net wt.
F.O.B. Phila, PA U.S.A.	

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