



Product Information

PSF-1cSt Silicone Damping Fluid

Meets VV-D-1078 "Silicone as Damping Fluid"



VV-D-1078 "Silicone as Damping Fluid."

PSF-1cSt Damping Fluid is a super-low viscosity linear PDMS Silicone / Polydimethylsiloxane composed mainly of Octamethyltrisiloxane (CAS#107-51-7). The fluid is clear, colorless and essentially odorless with a viscosity of water (1 centistokes).

PSF-1cSt Damping Fluid is a hydrophobic fluid that is characterized by its low viscosity, low pour point (-85°C), low VTC (little viscosity change even at extremely low temperature), low surface tension (high spreadability), excellent lubrication, high damping action

PSF-1cSt Damping Fluid meets Federal Spec **VV-D-1078 "Silicone as Damping Fluid and exhibits Newtonian behavior under shear.** It is used in a wide range of military and industrial liquid filled gauges, level controllers, rotary dampers, temperature and process recorders, control valves, calibration equipment, flow meters, thermostats, dashpots, monitoring systems avionic gauges and aviation instruments to dampen vibration, dampen pulsation, and dampen torque.

PSF-1cSt Damping Fluid is particularly effective for use in instruments and gauges that will operate at extremely low temperatures (pour points is -85°C). It 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. Ultimately, **Silicone Damping Fluids** will extend the service life of the equipment that it fills and provide more accurate readings even in the harshest of conditions.

SPECIFICATIONS

Product code	PSF-1cSt
Chemical Family	Polydimethylsiloxane
Chemical name	Octamethyltrisiloxane
CAS No.	CAS 107-51-7
Appearance	Clear, colorless & odorless fluid
Flammability	HMIS 3
Federal Spec	VV-D-1078 Silicone as damping fluid
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.
- Extends service life of gauges, instruments, meters and avionic instruments.
- Excellent low service temperature range
- Low viscosity change 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

Meets specification of NSN No.

NSN 9150-00-066-2382
NSN 9150-00-116-0323

Packaging

1-gallon.....3.08kg net wt.
5-gallon pail.....15.4kg net wt.
55-gallon drum.....170kg net wt.

F.O.B. Phila, PA U.S.A.

Typical Product Data

Viscosity	Specific Gravity	Viscosity – Temp Coefficient	Flash Point	Pour Point	Refractive Index	Thermal expansion cc/cc/sec °C	Thermal conductivity g/cal/cm/sec °C	Surface tension	Dielectric Constant	Dielectric Strength volts/mil
1cSt	0.818	0.37	39°C	-85°C	1.3825	0.00134	0.00024	17.4	2.30	350

Typical Product Data (cont'd)

Boiling Point	Vapor Density (air = 1)	Vapor Pressure @ 25°C	Evaporation rate butyl acetate = 1	Molecular weight
151°C	>1	4mm	0.7	237

For More Info, Contact:

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