



# Product Information

## PSF-1cSt Silicone Damping Fluid

### Low Viscosity Silicone Damping Fluid (CAS# 107-51-7)

**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) measured @ 25°C.



PSF-1cSt is an Octamethyltrisiloxane Silicone Damping Fluid

**PSF-1cSt Damping Fluid** is characterized by its low viscosity, low pour point, hydrophobic nature, low VTC (little viscosity change even at extremely low temperature), low surface tension & excellent lubrication.

**PSF-1cSt Damping Fluid** 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, dashpots, & monitoring systems.

**Due to its low viscosity and low pour point, PSF-1cSt Damping Fluid** is particularly effective for use in instruments and gauges that will operate at extremely low temperatures. 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.

#### SPECIFICATIONS

Product code	PSF-1cSt
Chemical Family	Polydimethylsiloxane
Chemical name	Octamethyltrisiloxane
CAS No.	CAS 107-51-7
Appearance	Clear, colorless & odorless fluid
Flammability	HMS 3
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 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

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

#### Packaging

1-gallon (3.785L).....	3.08kg net wt.
5-gallon pail (18.9L).....	15.4kg net wt.
55-gallon drum.....	170kg net wt.
F.O.B. Phila, PA U.S.A.	

#### Meets specification of NSN No.

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

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