



## PSF-5cSt Silicone Damping Fluid

100% PDMS Silicone Fluid...Meets VV-D-1078 "Silicone as Damping Fluid"



*Pure Silicone Fluid 5cSt meets  
VV-D-1078 Silicone as  
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 a hydrophobic fluid that is characterized by its low viscosity, low pour point (-90°C), low V.T.C. (little viscosity change even at extremely low temperature), low surface tension (high spreadability), excellent lubrication & high damping action

**PSF-5cSt 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-5cSt Damping Fluid** is particularly effective for use in instruments and gauges that will operate at extremely low temperatures (pour points is -90°C). 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. 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-5cSt
Chemical Name	Polydimethylsiloxane
INCI/CTFA Name	Dimethicone
CAS #	63148-62-9
Appearance	Clear Liquid – Odorless & Tasteless
Viscosity Class	Low
Non-Flammable	Yes
Thermally Stable	Yes
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 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 \*
- Meets NSN 9150-00-435-2712
- Meets NSN 9150-00-087-4046
- Meets NSN 9150-00-137-6343
- 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	Thermal Expansion cc/cc/°C 0-150°C	Thermal Conductivity @ 25°C g/cal/cm/sec °C	Surface Tension	Dielectric Constant	Dielectric Strength
0.918	0.54	135°C	-90°C	1.3970	0.00109	0.00028	19.7	2.60	375

### Product Data (cont'd)

Boiling Point	Vapor Density (air = 1)	Vapor Pressure @ 25°C	Max volatility, % wt loss @ 150°C	Molecular weight
>200°C	>1	<10mmHg	90%	770

### Packaging

1-gallon.....	3.45kg net wt.
5-gallon pail.....	17.25kg net wt.
55-gallon drum.....	190kg net wt.

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

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