



PSF-10cSt Silicone Damping Fluid

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



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

PSF-10cSt Damping Fluid is a hydrophobic fluid that is characterized by its low viscosity, low pour point (-70°C), low V.T.C. (little viscosity change even at extremely low temperature), low surface tension (high spreadability), excellent lubrication & high damping action

PSF-10cSt 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-10cSt Damping Fluid is particularly effective for use in instruments and gauges that will operate at a wide service temperature range. 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

Chemical Family	Silicone
Chemical Name	Polydimethylsiloxane
Synonym	Dimethicone
CAS#	63148-62-9
Appearance	Clear Liquid – Odorless & Tasteless
Non-Flammable	Yes
Thermally Stable	Yes
Federal Spec	VV-D-1078
Meets specifications of NSN No's	NSN 9150-00-664-0111 NSN 9150-00-607-0897
Minimum Order	1-gallon

Features

<ul style="list-style-type: none"> 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. Wide Service Temperature Range Low viscosity change at temperature (low V.T.C.) Inert to virtually all o-rings, gaskets, seals and valves * Meets NSN 9150-00-664-0111 Meets NSN 9150-00-607-0897 High Dielectric Strength

* not recommended for Silicone o-rings due to possibility of swelling

Typical Product Data

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	163°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 pail.....	3.52kg / 7.75 lbs
5-gallon pail.....	17.6kg / 38.8 lbs
4 x 5-gallon pails	
55-gallon drum.....	180kg / 396 lbs
Terms F.O.B. Phila, PA	

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