



PSF-20cSt Silicone Damping Fluid

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



PSF-20cSt Silicone Damping Fluid meets federal spec VV-D-1078 "Silicone as Damping Fluid".

PSF-20cSt Silicone Damping Fluid is a low viscosity linear Polydimethylsiloxane (CAS#63148-62-9) fluid with a viscosity of 20cSt (centistokes) @ 25°C.

PSF-20cSt Silicone Damping Fluid is a hydrophobic fluid that is characterized by its low viscosity, low pour point (-60°C), low V.T.C. (little viscosity change even at extremely low temperature), low surface tension (high spreadability), wide service temperature range, excellent lubrication & high damping action

PSF-20cSt Silicone 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-20cSt Silicone 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

Specifications

Product code	PSF-20cSt
Chemical Name	Polydimethylsiloxane PDMS
CAS No.	63148-62-9
Appearance	Clear, odorless fluid
Viscosity Class	Low
Non-Flammable	Yes
Meets Requirements of NSN No.	9150-00-543-7219 9150-00-487-4219 9150-00-219-5229
Federal Spec	VV-D-1078
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.
- 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 9150-00-543-7219
- Meets NSN 9150-00-487-4219
- Meets NSN 9150-00-219-5229
- High Dielectric Strength

* not recommended for Silicone o-rinas due to possiblity of swelling

Typical Product Data

Specific Gravity	Refractive Index	Pour Point	Flash Point	Surface Tension @ 25°C	Thermal Conductivity @ 25°C g/cal/cm/sec °C	Thermal Expansion cc/cc °C	Volatile content @ 150°C	Specific Heat @ 25°C
0.950	1.4000	-65°C	232°C	20.6	0.00034	0.00107	4.5%	0.360

Properties (cont'd)

Dielectric Constant	Dielectric Strength volts/mil	Boiling Point	Molecular weight
2.72	375	>230°C	2,000

Packaging

1-gallon.....	3.6kg net wt.
5-gallon pail.....	18kg net wt.
55-gallon drum.....	190kg net wt.
F.O.B. Phila, PA U.S.A.	

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