



Product Information

PSF-Silicone Damping Fluids (standard viscosities)

Meet VV-D-1078 Silicone as Damping Fluid Viscosities: 50cSt, 100cSt, 200cSt, 350cSt, 500cSt, 1,000cSt



PSF Damping Fluids are linear 100% Polydimethylsiloxane / PDMS Silicone fluids

PSF-Standard Viscosity Silicone Damping Fluids are linear Polydimethylsiloxane (CAS#63148-62-9) fluids with viscosities of 50cst, 100cSt, 200cSt, 350cSt, 500cSt & 1,000cSt (centistokes) @ 25°C.

PSF-Silicone Damping Fluids are hydrophobic fluids that are characterized by their wide service temperature range, medium viscosities, low pour points, low V.T.C. (little viscosity change even at extremely low temperature), low surface tension (high spreadability), , excellent lubrication & high damping action

Standard Viscosity Silicon Damping Fluids meet Federal Spec VV-D-1078 "Silicone as Damping Fluid and exhibits Newtonian behavior under shear. They are 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.

Standard Viscosity Damping Fluids are particularly effective for use in instruments and gauges that will operate at a wide service temperature range. The fluids are hydrophobic and prevent 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 Name	Polydimethylsiloxane
CAS #	63148-62-9
Appearance	Clear, colorless fluid

Meets Requirements of NSN No.

PSF-50cSt	NSN 9150-00-664-0047 NSN 9150-00-664-0048
PSF-100cSt	NSN 9150 00-269-8246 NSN 9150-00-404-3435 NSN 9150-01-233-9897
PSF-200cSt	NSN 9150-00-584-3134
PSF-350cSt	NSN 9150-00-851-4257
PSF-500cSt	NSN 9150-00-024-9621 NSN 9150-00-261-8327 NSN 9150-01-056-9047
PSF-1,000cSt	NSN 9150-00-024-9623

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
- High Oxidation resistance
- High Resistance to shear
- Newtonian behavior under shear...viscosity is constant & independent of velocity gradient.
- Low viscosity change at temperature (low V.T.C.)
- Inert to virtually all o-rings, gaskets, seals and valves *
- Meet VV-D-1078 "Silicone As Damping Fluid"
- High Dielectric Strength

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

Typical Product Data

Viscosity (cSt)	Specific Gravity	Refractive Index	Pour Point	Flash Point (open cup)	V.T.C	Surface Tension	Thermal Expansion (cc/cc/c 0-150°C)	Thermal Conductivity g/cal/cm/sec °C	Maximum Volatility @ 150°C (%wt)	Specific Heat BTU/lb. °F
50	0.960	1.402	-55°C	285°C	0.59	20.8	0.00106	0.00036	0.5	0.36
100	0.966	1.4030	-55°C	315°C	0.60	20.9	0.00096	0.00037	0.5	0.36
200	0.968	1.4031	-50°C	315°C	0.60	21.0	0.00096	0.00037	0.5	0.36
350	0.970	1.4032	-50°C	315°C	0.60	21.1	0.00096	0.00037	0.5	0.36
500	0.971	1.4033	-50°C	315°C	0.60	21.1	0.00096	0.00038	0.5	0.36
1,000	0.971	1.4035	-50°C	315°C	0.61	21.2	0.00096	0.00038	0.5	0.36

Packaging

1-gallon.....3.6kg net wt.
 5-gallon pail.....18kg net wt.
 55-gallon drum.....200kg net wt.

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

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