



PSF-1.5cSt Silicone Damping Fluid

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



PSF-1.5cSt Damping Fluid is a linear 100% PDMS Silicone with a viscosity of 1.5cSt @ 25C

PSF-1.5cSt Damping Fluid is a super-low viscosity linear PDMS Silicone / Polydimethylsiloxane composed mainly of Decamethyltetrasiloxane (CAS#141-62-8). The fluid is clear, colorless and essentially odorless with a viscosity of 1.5cSt (centistokes) @ 25°C.

PSF-1.5cSt Damping Fluid is a hydrophobic fluid that is characterized by its low viscosity, low pour point (-85°C), low VTC (little viscosity change even at extremely low temperature), low surface tension (high spreadability), excellent lubrication, high damping action

PSF-1.5cSt 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-1.5cSt Damping Fluid is particularly effective for use in instruments and gauges that will operate at extremely low temperatures (pour points is -85°C). 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. 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-1.5cSt |
| Chemical Family | Polydimethylsiloxane |
| Chemical name | Decamethyltetrasiloxane |
| CAS No. | CAS 141-62-8 |
| Appearance | Clear, colorless & odorless fluid |
| Federal Spec | VV-D-1078 Silicone as damping fluid |
| 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 *
- High Dielectric Strength

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

Meets specification of NSN No.

NSN 9150-01-193-2060

Packaging

| | |
|-------------------------|---------------|
| 1-gallon..... | 3.2kg net wt. |
| 5-gallon pail..... | 16kg net wt. |
| 55-gallon drum..... | 150kg net wt. |
| F.O.B. Phila, PA U.S.A. | |

Typical Product Data

| Viscosity @25°C | Specific Gravity | Viscosity-Temp Coefficient | Flash Point | Pour Point | Refractive Index | Thermal Expansion cc/cc °C | Thermal Conductivity g/cal/cm/ sec °C | Surface Tension | Dielectric Constant | Dielectric Strength volts/mil |
|-----------------|------------------|----------------------------|-------------|------------|------------------|----------------------------|---------------------------------------|-----------------|---------------------|-------------------------------|
| 1.5cSt | 0.853 | 0.46 | 63°C | -90°C | 1.3880 | 0.00134 | 0.00025 | 18.0 | 2.39 | 350 |

Product Data (cont'd)

| Boiling Point | Vapor Density (air = 1) | Vapor Pressure @ 25°C | Evaporation Rate Buty acetate = 1 | % Volatile | Molecular weight |
|---------------|-------------------------|-----------------------|-----------------------------------|------------|------------------|
| 194°C | >1 | 1mmHg | 0.7 | 100% | 340 |

For More Info, Contact:

Clearco Products Co., Inc.

15 York Road
Willow Grove, PA 19090
U.S.A.

Tel: (215) 366-7860
Fax: (215) 366-7862
Email: info@clearcoproducts.com
Web: www.clearcoproducts.com