



# PSF-1.5cSt Silicone Damping Fluid

## Low Viscosity Silicone Damping Fluid (CAS# 141-62-8)



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

**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 characterized by its low viscosity, low pour point, hydrophobic nature, low VTC (little viscosity change even at extremely low temperature), low surface tension, & excellent lubricity.

PSF-1.5cSt Silicone Damping Fluid is used in a wide range of military and industrial applications to dampen vibration, dampen pulsation, and dampen torque in liquid-filled gauges & instruments.

Due to its low viscosity and low pour point, PSF-1.5cSt Silicone Damping Fluid is particularly effective for use in instruments and gauges that will operate at extremely low temperatures. 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.

### SPECIFICATIONS

|                 |                                   |
|-----------------|-----------------------------------|
| Product code    | PSF-1.5cSt                        |
| Chemical Family | Polydimethylsiloxane              |
| Chemical name   | Decamethyltetrasiloxane           |
| CAS No.         | CAS 141-62-8                      |
| Appearance      | Clear, colorless & odorless 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 changes 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

### 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          | 0.851            | 0.46                       | 57°C        | -100°C     | 1.3874           | 0.00134                    | 0.00025                               | 18.0            | 2.39                | 350                           |

### Meets specification of NSN No.

NSN 9150-01-193-2060

### Packaging

1-gallon (3.785L).....3.2kg net wt.  
 5-gallon pail (18.9L).....16kg net wt.  
 55-gallon drum.....170kg net wt.

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