



# PSF-30,000cSt & 60,000cSt Silicone Damping Fluids

High Viscosity Polydimethylsiloxane Fluids (CAS # 63148-62-9)...meets VV-D-1078 "Silicone as Damping Fluid"



PSF- 30k & 60k are high viscosity PDMS Silicones that meet federal spec VV-D-1078 "Silicone as Damping Fluid".

**PSF-30,000cSt & 60,000cSt Silicone Damping Fluids** are high viscosity linear Polydimethylsiloxane (CAS#63148-62-9) fluids with viscosities of 30,000cSt and 60,000cSt (centistokes) @ 25°C.

**PSF-30,000cSt & 60,000cSt Silicone Damping Fluids** are hydrophobic fluids that are characterized by their wide service temperature range, high oxidation resistance, high viscosity, high dielectric strength, high resistance to shear, low pour points, low V.T.C. (little viscosity change even at extremely low temperature), excellent lubrication & high damping action.

**PSF-30,000cSt & 60,000cSt Silicone Damping Fluids** meet Federal Spec **VV-D-1078 "Silicone as Damping Fluid"**. 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.

**PSF-12,500cSt 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 readings even in the harshest of conditions.

### Specifications

Product code	PSF-30K and PSF-60k
Chemical Name	Polydimethylsiloxane
CAS #	63148-62-9
Federal Spec	VV-D-1078
Meets NSN Code	9150-00-530-5232 9150-00261-8326

### Properties

Appearance	Clear, colorless fluid
Specific Gravity	0.976
Refractive Index	1.4035
Pour Point °C	-42°C
Flash Point (Open Cup) °C	315°C
V.T.C.	0.61
Surface Tension @ 25°C	21.3
Thermal Expansion cc/cc °C	0.00096
Thermal Conductivity g/cal/cm/sec °C	0.00038
Dielectric constant 50Hz	2.75
Dielectric Strength (volts/mil)	400

### 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
- 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

### Packaging

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

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### Environmental & VOC Status

Clearco Pure Silicone Fluid is exempt from Federal VOC Regulations, including California (CARB) and OTC Regulations. It does not contribute to ozone depletion and global warming. In addition, it meets the following:

- RoHS Compliant
- HAP-free
- VOC Exempt

### For More Info, Contact:

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