



# Super High Viscosity Silicone Damping Fluids (300,000cSt, 600,000cSt, 1,000,000cSt)

## High Viscosity 100% PDMS Silicone Oil CAS # 63148-62-9



Super Hi-Viscosity Silicones Fluids are extremely viscous 100% PDMS silicone oil that offer the highest damping action.

**Super High Viscosity Silicone Damping Fluids** are 100% PDMS Silicone Fluids / Polydimethylsiloxane (CAS#63148-62-9) fluids with viscosities of 300,000cSt, 600,000cSt & 1,000,000cSt (1 million cSt) (centistokes) measured @ 25°C.

**Super High Viscosity Silicone Damping Fluids** are characterized by their high viscosities, high damping action, hydrophobic nature, wide service temperature range, high dielectric strength, low V.T.C. (little viscosity changes at low and high temperatures), excellent lubrication & inertness.

They meet the composition requirements (100% Polydimethylsiloxane/Dimethyl Polysiloxane ) of VV-D-1078 Silicone as Damping Fluid. \*

\* PSF-Fluids are not formally certified or tested to VV-D-1078.

They are used in a wide range of military and industrial applications to dampen vibration, dampen pulsation, and dampen torque in liquid-filled gauges, level controllers, rotary dampers, temperature and process recorders, control valves, calibration equipment, flow meters, thermostats, & monitoring systems.

PSF-Super High Viscosity Silicone Damping Fluids are particularly effective for use in instruments and gauges that require high damping action with little change in viscosity.

### Specifications

Chemical Name	Polydimethylsiloxane
CAS #	63148-62-9
Appearance	Clear. Colorless, odorless fluid

### Dielectric Properties

Dielectric constant Hz	Dielectric Strength volts/mil
2.75	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
- Wide 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	Specific Gravity	Refractive Index	Pour Point	V.T.C.	Flash Point	Surface Tension	Thermal Expansion cc/cc °C	Thermal conductivity g/cal/cm/sec °C	Molecular weight
300,000cSt	0.977	1.4035	-41°C	0.61	321°C	21.5	0.00092	0.00038	204,000
600,000cSt	0.978	1.4035	-41°C	0.61	321°C	21.6	0.00092	0.00038	260,000
1,000,000cSt	0.978	1.4035	-39°C	0.62	321°C	21.6	0.00092	0.00038	308,000

### Packaging

1-gallon (3.785L).....3.6kg net wt.
5-gallon pail (18.9L).....18kg net wt.

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

### 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](mailto:info@clearcoproducts.com)  
Web: [www.clearcoproducts.com](http://www.clearcoproducts.com)