



## Product Information

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

High Viscosity Polydimethylsiloxane Fluids / PDMS Silicone Fluids (CAS # 63148-62-9)



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

**PSF-30,000cSt and PSF-60,000cSt Pure Silicone Fluids** are clear, colorless, odorless high viscosity linear Polydimethylsiloxane Fluids / PDMS Silicone Fluids (CAS # 63148-62-9). They have viscosities of 30,000cSt (centistokes) & 60,000cSt @ 25°C.

**PSF-30,000cSt & 60,000cSt Pure Silicone Fluids** are characterized by their high damping action, high resistance to oxidation, excellent lubricity, wide service temperature range, low VTC (little viscosity change at both high and low temperatures), high dielectric strength, high resistance to shear and inertness to virtually all substrates.

**Pure Silicone Fluids 30,000cSt & 60,000cSt** meet Federal Specification **VV-D-1078 "Silicone as Damping Fluid"**. They are used in a wide range of military, industrial and avionic gauges, meters, instruments, and monitoring systems.

In addition, Pure Silicone Fluid 30,000cSt & 60,000cSt are inert to virtually all plastic, rubber and metal surfaces. They are widely used as a lubricant for O-rings, gaskets, valves and seals \*

\* Not recommended for silicone rubber as swelling may occur.

*Uses include: High Damping Action Fluid, Dielectric Fluid, and Lubricant for Rubber and Plastics Parts, O-Ring Lubricant, Dielectric fluid, Valve and Gasket lubricant.*

#### Specifications

Product code	PSF-30k /PSF-60k
Chemical Name	Polydimethylsiloxane / PDMS Silicone Oil
CAS #	63148-62-9
INCI Name	Dimethicone

#### 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

- High Viscosity
- Excellent Lubrication
- Non-Flammable
- High Resistance to Oxidation
- High Damping Action
- High Dielectric Strength
- Meets VV-D-1078 Silicone as Damping Fluid
- High resistance to shear
- High Water Repellency
- Chemically Inert
- Excellent Thermal Stability

#### Packaging

1-gallon.....	8lb / 3.6kg net wt.
5-gallon pail.....	40lb / 18kg net wt.
55-gallon drum.....	419 lbs / 190kg 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 Information, Contact: Clearco Products Co., Inc.

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