

PSF-5,000cSt Pure Silicone Fluid

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



PSF-5K Pure Silicone Fluid is a high viscosity PDMS Silicone that meets federal spec VV-D-1078 "Silicone as Damping Fluid".

PSF-5,000cSt Pure Silicone Fluid is a clear, colorless and odorless high viscosity linear Polydimethylsiloxane fluid / PDMS Silicone Fluid (CAS # 63148-62-9 with a viscosity of 5,000cSt (centistokes) @ 25°C.

PSF-5,000cSt Pure Silicone Fluid is characterized by its high damping action, high resistance to oxidation, excellent lubricity, wide service temperature range, low V.T.C. (little viscosity change at both high and low temperatures), high dielectric strength and high resistance to shear.

PSF-5,000cSt Silicone Fluid meets Federal Specification **VV-D-1078 "Silicone as Damping Fluid"**. It is used in a wide range of military, industrial and avionic gauges, meters, instruments, and monitoring systems.

In addition, Pure Silicone Fluid 5,000cSt is inert to virtually all plastic, rubber and metal surfaces. It is widely used as a lubricant for o-rings, gaskets, valves and seals.

Uses include: High Damping Action Fluid, High Viscosity Dielectric Fluid, Lubricant for Rubber and plastics, O-Ring Lubricant, Valve and Gasket lubricant.

Specifications

Product code	PSF-5,000cSt
Chemical Name	Polydimethylsiloxane / PDMS Silicone
INCI Name	Dimethicone
CAS #	63148-62-9
Appearance	Clear, colorless odorless fluid

Properties

Appearance	Clear
Specific Gravity	0.975
Refractive Index	1.4035
Flash Point (Open Cup) °C (°F)	315°C
Pour Point °C (°F)	-50°C
V.T.C.	0.61
Surface Tension @ 25°C	21.3
Thermal Conductivity g/cal/cm/sec °C	0.00038
Thermal Expansion cc/cc °C	0.00096
Dielectric Constant 50Hz	2.75
Dielectric Strength (volts/mil)	400

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

Features

- High Viscosity PDMS Silicone Oil
- Excellent Lubrication
- Non-Flammable
- Wide Service Temperature Range
- 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.....	419lbs / 190kg net wt.

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