



PSF-12,500cSt Pure Silicone Fluid

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



Pure Silicone 12,500cSt is a high viscosity silicone with a consistency of honey.

PSF-12,500cSt Pure Silicone Fluid is a clear, colorless and odorless 100% linear Polydimethylsiloxane fluid / PDMS Silicone Fluid (CAS # 63148-62-9 with a viscosity of 5,000cSt (centistokes) @ 25°C.

PSF-12,500cSt Pure Silicone Fluid is characterized by its high viscosity, hydrophobic nature, high damping action, low V.T.C. (little viscosity change at both high and low temperatures), wide service temperature range, high resistance to oxidation, excellent lubricity, high dielectric strength and inertness.

PSF-12,500cSt Silicone Fluid is widely used as a damping fluid in a range of military, industrial and avionic gauges, meters, instruments, and monitoring systems.

In addition, Pure Silicone Fluid 12,500cSt 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-12,500cSt
Chemical Name	Polydimethylsiloxane / PDMS Silicone Oil
INCI Name	Dimethicone
CAS #	63148-62-9
Appearance	Clear-colorless fluid
Consistency	Honey
Minimum order	1-gallon (3.785 liters)

Features

- High Viscosity
- Excellent Lubrication
- High Resistance to Oxidation
- High Resistance to Shear
- High Damping Action
- High Dielectric Strength
- Chemically Inert
- Wide Service Temperature Range
- Hydrophobic
- Lubricates O-Rings, Gaskets & Seals
- Plastic & Rubber Lubricant

Typical Product Data

Specific Gravity	Refractive Index	Pour Point	Flash Point Open Cup	Surface Tension	Thermal expansion cc/cc °C	Thermal Conductivity g/cal/cs/sec °C	Maximum Volatility % wt @ 25C	V.T.C
0.975	1.4035	-46°C	315°C	21.5	0.00096	0.00038	0.23	0.61

Dielectric Properties

Dielectric Constant 50Hz	Dielectric Strength volt/mil
2.75	400

Packaging

1-gallon (3.785L).....	3.6kg net wt.
5-gallon pail (18.9L).....	18kg net wt.
55-gallon drum.....	190kg net wt.
F.O.B. Phila., PA U.S.A.	

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

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