

Super High Viscosity

Pure Silicone Fluids (PSF-300k, PSF-500k, PSF-600k, PSF-1mil, PSF-2.5mil & PSF-20mil cSt)

Polydimethylsiloxane CAS # 63148-62-9 Meet VV-D-1078 "Silicone as Damping Fluid"



Super Hi-Viscosity Silicones Fluids are extremely viscous PDMS Silicones that meet VV-D-1078 "Silicone as Damping Fluid" and are used in a wide range of damping applications.

Super Hi-Viscosity Pure Silicone Fluids are high viscosity linear 100% Polydimethylsiloxane Fluids (CAS # 63148-62-9) that range in viscosity from 300,000cSt to 20,000,000cSt (centistokes). They are clear, colorless, odorless, and chemically inert to virtually all materials including plastics, metals and rubber. Hi-Viscosity PSF Fluids possess excellent thermal stability, and exhibit little viscosity change at both high and low temperature.

Super High Viscosity Silicone Fluids are extremely viscous fluids that possess both high damping properties and high resistance to shear without breakdown. They meet Federal Specification **VV-D-1078** "Silicone as **Damping Fluid**", and are used in a wide range of military, industrial and avionic gauges, meters, instruments, and monitoring systems.

Super Hi-Viscosities are widely used as lubricants for o-rings, gaskets, valves and seals. Unlike petroleum-based products, they contain no solvents or distillates that can attack the o-ring. They are compatible with virtually all plastics and rubbers with the exception of silicone rubber where swelling may occur.

<u>Uses Include</u>: High damping action fluid, O-ring lubricant, gasket lubricant, valve lubricant, rotary damper fluid.

Specifications

Chemical Name	Polydimethylsiloxane
INCI Name	Dimethicone
CAS#	63148-62-9
Product codes	PSF-300K, PSF-500K, PSF-600K, PSF-1mil, PSF-2.5mil, PSF-20mil
Federal Spec	VV-D-1078 " Silicone as Damping Fluid"
Appearance	Clear, colorless & odorless

Dielectric Properties

Dielectric constant Hz	Dielectric Strength				
	volts/mil				
2.75	400				

Features and Benefits

- High Damping Action...meet Federal Spec VV-D-1078
- Excellent Lubrication
- Excellent O-Ring Lubricant
- Inert to virtually all o-rings, gaskets, seals and valves
- High Shearability without breakdown
- High Oxidation Resistance
- Provides a soft, emollient feel to skin in personal care products
- Prevents stickiness in skin care products
- Compatible with a wide range of solvents
- Hydrophobic water repellent
- Inert- improves stability and shelf-life of formulations
- Low Vapor Pressure
- Excellent Thermal stability
- Low Viscosity change at both low and high temperatures

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
500,000cSt	0.977	1.4035	-41°C	0.61	321°C	21.5	0.00092	0.00038	
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
2,500,000cSt	0.978	1.4035	-38°C	0.62	321°C	21.6	0.00092	0.00038	423,000
20,000,000cSt	0.979	1.4035	-35°C	0.62	321°C	21.6	0.00092	0.00038	>500,000

Packaging

1-gallon	3.5 kg net wt.
5-gallon pail	17 kg net wt.
55-gallon drum	Please contact us for information
	F.O.B. Phila, PA U.S.A.

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