

Product Information

# Super High Viscosity

## Pure Silicone Fluid (300,000cSt, 600,000cSt, 1,000,000cSt)

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



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

### Specifications

	Polydimethylsiloxane /				
Chemical Name	PDMS Silicone				
INCI Name	Dimethicone				
CAS #	63148-62-9				
Federal Spec	VV-D-1078 " Silicone as				
	Damping Fluid"				
Annoaranco	Clear, colorless and				
Appearance	odorless liquid				

#### **Dielectric Properties**

Dielectric constant Hz	Dielectric Strength		
Dicicettie constant fiz	volts/mil		
2.75	400		

**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 1,000,000cSt (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.

#### 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
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

#### Pricing

1-gallon3.6 kg net wt.				
5-gallon pail18 kg net wt.				
55-gallon drumPlease contact us for information				
F.O.B. Phila, PA U.S.A.				

## For More Info, Contact: Clearco Products Co., Inc. 15 York Road

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