



Order Toll Free: 800 533-5823

Product Information

High Viscosity Down-Hole Silicone Fluids

Viscosities: 5,000cSt, 10,000cSt, 12,500cSt, 30,000cSt, 60,000cSt, 100,000cSt (centistokes)



Hi Viscosity Down-Hole Silicone Fluids provide high damping action for instruments and gauges under extreme pressures.

PSF-High Viscosity Down-Hole Silicone Fluids are linear Polydimethylsiloxane (CAS#63148-62-9) fluids with viscosities of 5,000cSt, 10,000cSt, 12,500cSt, 30,000cSt, 60,000cSt & 100,000cSt @ 25°C.

Down-Hole Silicone Fluids are excellent choices for the ever harsher environments in the Downhole Oil and Gas Industries. They are characterized by their wide service temperature ranges, stability at extremely high pressures, low viscosity change at temperature (low V.T.C.), low surface tension, high dielectric strength, high damping action, long service life, and hydrophobic nature (insoluble in water).

Down-Hole Silicone Fluids are used to dampen vibration and serve as a heat transfer / heat stable fluids in a wide range of Down-Hole pressure gauges, geo-steering instrumentation, transducers, cables, temperature and process recorders, control valves, calibration equipment, flow meters, thermostats.

Unlike conventional petroleum based fluids like mineral oil, **Down-Hole Silicone Fluids** exhibits extremely high compressibility and will not coagulate under pressure. The lower the viscosity, the higher the compressibility. **Silicone Down-Hole Fluids** will not solidify even at high pressures of 4,000 MPa. The fluids are hydrophobic and prevent humidity from entering the gauge/instrument housing.

Ultimately, **Silicone Down-Hole Fluids** will extend the service life of the equipment that it fills and provide more accurate readings even in the harshest of conditions.

Specifications

Chemical Name	Polydimethylsiloxane
CAS #	63148-62-9
Appearance	Clear, Odorless & Tasteless
Viscosities @ 25°C	5,000, 10,000, 12,500, 30,000, 60,000 & 100,000cSt

Features

- High Viscosity
- Excellent Lubrication
- High Resistance to Oxidation
- High Damping Action
- High Dielectric Strength
- Stability under extreme pressure
- Chemically Inert
- Excellent Thermal Stability
- High Water Repellency
- High Compressibility
- High resistance to shear

Typical Properties

	5,000cSt	10,000cSt	12,500cSt	30,000cSt	60,000cSt	100,000cSt
Appearance	Clear	Clear	Clear	Clear	Clear	Clear
Specific Gravity	0.975	0.975	0.975	0.976	0.976	0.977
Refractive Index	1.4035	1.4035	1.4035	1.4035	1.4035	1.4035
Flash Point (Open Cup) °C	315°C	315°C	315°C	315°C	315°C	321°C
Pour Point °C	-50°C	-48°C	-46°C	-42°C	-42°C	-41°C
Surface Tension @ 25°C	21.3	21.5	21.5	21.3	21.3	21.5
Viscosity-temp-coefficient	0.61	0.61	0.61	0.61	0.61	0.61
Thermal Expansion (cc/cc/ °C)	0.00096	0.00096	0.00096	0.00096	0.00096	0.00094
Thermal Conductivity (g /cal/cm/sec °C)	0.00038	0.00038	0.00038	0.00038	0.00038	0.00038
Dielectric Strength (volts/mil)	400	400	400	400	400	400

Availability

1-gallon.....	3.6kg
5-gallon pail.....	18kg
55-gallon drum.....	200kg
* Minimum order is 1-gallon	

For More Information, Contact:

Clearco Products Co., Inc.

3430 G. Progress Drive
Bensalem, PA 19020
U.S.A.

Tel: 215 639-2640

Fax: 215 639-2919

Email: info@clearcoproducts.com

Web: www.clearcoproducts.com