CLEARCO

Order Toll Free: 800 533-5823

Product Information

PSF-2cst Dielectric Silicone Fluid

Dielectric Strength: 350 volts/mil Operating Temperature Range: -80°C to 120°C closed system only

PSF-2cSt Dielectric Silicone Fluid is an excellent fluid for applications that require low temp stability and high dielectric strength.

PSF-2cSt Dielectric Silicone Fluid is a clear, colorless and odorless low-viscosity linear Polydimethylsiloxane (CAS # 63148-62-9) with a viscosity of 2cSt @ 25°C. **PSF-2cSt Dielectric Silicone Fluid** is characterized by its high dielectric strength, low pour point, low temperature stability, wide service temperature range, low viscosity change at temperature (low V.T.C.), low surface tension, long service life, and hydrophobic nature (insoluble in water).

PSF-2cSt Dielectric Silicone Fluid has a dielectric strength of 350 volts/mil and a dielectric breakdown strength (2.5mm) ≥35kV. **PSF-2cSt Dielectric Silicone Fluid** has an operating service temperature range of –80ºC to 120ºC (closed system*).

PSF-2cSt Dielectric Silicone Fluid has a Thermal Conductivity value of 0.11 W/m sec °C. Its specific heat value is 1.8 J/g °C @ 25°C.

PSF-2cSt Dielectric Silicone Fluid has a low viscosity-temperature coefficient or V.T.C. (viscosity @99°C ÷viscosity @ 38°C). The lower the V.T.C., the lower the viscosity will be at lower temps. Thus, its viscosity will not increase significantly even at extremely low temperatures.

*Closed system baths are systems from which air has been excluded.

Features

- Super low viscosity : 2cSt (centistokes)
- Excellent Low Temperature Serviceability
- Low Temperature heat transfer fluid
- VOC Exempt
- High Compressibility
- High Oxidation Resistance
- Insoluble in water
- Compatible with virtually all o-rings, gaskets, valves and seals *

*Not recommended for silicone o-rings where the fluid may cause swelling

Dielectric Properties

Dielectric Properties
Dielectric Strength ……350 volts/mil
Dielectric breakdown strength (2.5mm)……≥35 kV

Dielectric Constant (50Hz)…….2.45 @ 25°C
Dielectric Constant (100Hz)…. 2.44 @ 25°C
2.12 @ 150°C

Dissipation Factor (100Hz)
@ 25C……..0.0004
@ 150C……0.0004

Volume Resistance (ohm-cm)
@ 25°C……..5.0 x 10^{14}
@150°C …….1.0 x 10^{13}

Typical Product Data

Specific Gravity	Viscosity-Temp Coefficient	Flash Point	Boiling Point	Pour Point	Refractive Index	Thermal Expansion cc/cc °C	Thermal Conductivity W/m °C	Specific Heat J/g °C	Surface Tension
0.873	0.48	75°C	229°C	-100°C	1.3900	0.00117	0.11	1.8	18.7

Typical Product Data (cont'd)

Vapor Density (air = 1)	Vapor Pressure @ 25°C	Molecular weight
>1	1mmHg	410

Viscosity/Temperature

Viscosity-Temp Coefficient
(V.T.C.)…….. 0.48

Viscosity @25°C…..……2cSt

Viscosity
@-35°C……...8cSt
@-40°C ……..10cSt
@-60°C……...<20cSt

Packaging

1-gallon pail…….3.2kg
5-gallon pail……16kg
4 x 5-gallon pails

55-gallon drum……..150kg

F.O.B. Phila, PA U.S.A.

For More Information, Contact:

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