

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 -80°C to 120°C (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.

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 Strength350 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)
 @ 25°C.....0.0004
 @ 150°C.....0.0004

Volume Resistance (ohm-cm)
 @ 25°C.....5.0 x 10¹⁴
 @150°C1.0 x 10¹³

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°C10cSt
 @-60°C.....<20cSt

Packaging

1-gallon pail (3.78 liters)3.2kg
 5-gallon pail (18.9 liters)16kg
 55-gallon drum (208 liters)170kg

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