



PSF-0.65cSt HMDS Silicone Fluid

Lowest Viscosity linear Polydimethylsiloxane Silicone oil: HMDS Hexamethyldisiloxane (CAS#107-46-0)



PSF-0.65cSt HMDS is a Hexamethyldisiloxane fluid with the lowest viscosity and lowest surface tension of the PDMS Silicone Fluids

PSF-0.65cSt HMDS Silicone Fluid is a volatile PDMS silicone oil composed of Hexamethyldisiloxane (CAS#107-46-0) with a viscosity of 0.65cSt @ 25°C.

The fluid is clear, colorless and essentially odorless *. Of all the PDMS silicone fluids, PSF-0.65cSt possesses the lowest viscosity, fastest evaporation rate, the highest compressibility, and the lowest surface tension.

PSF-0.65cSt HMDS is used as a base fluid/carrying agent in a wide range of personal care products due to its volatility and low surface tension. Formulations include skin cream lotions, bath oils, suntan lotions, nail polishes, antiperspirants, deodorants, hair sprays and hair care products.

PSF-0.65cSt HMDS Silicone Fluid is VOC Exempt. It is an excellent carrying agent replacement for solvent-based formulations to attain VOC Compliancy.

* Unlike other PDMS fluids, PSF-0.65cst can sometimes have a mild solvent-like odor

Specifications

Product Code	PSF-0.65cSt HMDS
Chemical Family	Polydimethylsiloxane
Chemical name	Hexamethyldisiloxane
CAS No.	107-46-0
INCI Name	Hexamethyldisiloxane
Appearance	Clear, colorless fluid
Flammability	HMIS 4
Minimum Order	1 gallon (3.785 liters)

Features

- Fastest evaporation of the PDMS Silicone fluids
- Lowest viscosity of all PDMS Silicone fluids
- Clear, colorless and virtually odorless
- Excellent Lubrication
- Lowest surface tension...Highest Spreadability
- Highest Compressibility of all silicone fluids
- Excellent Low Temp Stability
- Low Pour Point

Typical Product Data

Viscosity	Specific Gravity	Viscosity-temp coefficient	Flash Point	Pour Point	Refractive Index	Thermal Expansion cc/cc °C	Thermal conductivity g cal/cm*sec* °C	Surface Tension	Dielectric Constant	Dielectric Strength volts/mil
0.65cSt	0.761	0.31	-1°C	-68°C	1.3750	0.00134	0.00024	15.9	2.20	300

Product Data (cont'd)

Boiling Point @760mm Hg	Vapor density	Vapor Pressure @ 25C	Evaporation Rate Butyl acetate = 1	Molecular weight
100°C	>1	35mmHg	>1	162

CAS Information

Hexamethyldisiloxane.....CAS # 107-46-0

* Highly flammable liquid

Packaging

1-gallon * (3.785 liters).....2.5kg net wt.
 5-gallon pail * (18.9 liters).....14kg net wt.
 * Performance Packaging for HAZMAT (air-ready) requires a drum (bung/plug or socket) wrench 1 1/12" to open.
 For both ground and air shipments, PSF-0.65cSt receives an additional HAZMAT charge
 55-gallon drum.....150kg net wt.

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

VOC Status

- VOC Exempt
- Excellent replacement for non-VOC Compliant carrying agents such as hexane, heptane, OMS
- Compatible with most surfaces unlike acetone

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