

Super High Viscosity Dimethicone Fluids (300,000cSt, 600,000cSt, 1,000,000cSt, 2.5 million & 20 million cSt)

CAS # 63148-62-9 Polydimethylsiloxane INCI Name: Dimethicone



Super Hi-Viscosity Dimethicone Fluids are extremely viscous fluids that are used in a wide range of hair care formulations.

PSF-Super High Viscosity Dimethicone Fluids are clear, colorless, and odorless high viscosity Polydimethylsiloxane fluids (CAS# 63148-62-9) with INCI Name Dimethicone. They range in viscosity from 300,000cSt to 20 million cSt.

PSF-High Viscosity Dimethicone Fluids are used in a variety of personal care products, providing a soft velvety feel when applied to hair and skin. They improve the feel of lotion products, and provide a hydrophobic, protective, but breathable barrier to the skin (allows skin to perspire).

In hair care products, they increase body and shine without buildup and provide better manageability. Higher Viscosity Dimethicones are better suited to add sheen and manageability to hair care products than lower viscosities. They are among the most commonly used conditioning additives. High Viscosity Dimethicones improve both wet and dry compatibility, impart humidity resistance and a soft feel to hair as well as improve shine.

PSF-High Viscosity Dimethicone Fluids are extremely viscous fluids. The PSF-2.5 million and 20 million cSt have gum like viscosities. They are miscible with a wide range of cosmetic solvents and are particularly advantageous when blended with Cyclomethicones.

Specifications

Chemical Name	Polydimethylsiloxane
INCI Name	Dimethicone
CAS #	63148-62-9
Federal Spec	VV-D-1078 "Silicone as Damping Fluid"
Appearance	Clear Liquid – Odorless & Tasteless
Non-Flammable	Yes

Features and Benefits

- High Viscosity...PSF-2.5 & 20 million are gum-like
- Excellent Lubrication
- Provides a soft, emollient feel to skin
- Prevents stickiness in skin care products
- Compatible with a wide range of solvents
- Best diluted with Cyclomethicone to lower viscosity
- Hydrophobic: water repellent
- Inert- improves stability and shelf-life of formulations
- Increase body & shine in hair care products
- Seal-in moisture: prevent hair damage

Dielectric Properties

Dielectric constant Hz	Dielectric Strength volts/mil
2.75	400

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
2,500,000cSt	0.978	1.4035	-38°C	0.62	321°C	21.6	0.00092	0.00038	423,000
20,000,000cSt	0.979	1.4035	-35°C	0.62	321°C	21.6	0.00092	0.00038	>500,000

Packaging

1-gallon pail.....	3.5kg
5-gallon pail.....	17kg
55-gallon drum	200kg
F.O.B. Phila, PA U.S.A.	

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