



High Viscosity Dimethicone Fluid (5,000cSt, 10,000cSt, 12,500cSt, 30,000cSt, 60,000cSt, 100,000cSt)

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



Clearco Hi-Viscosity Dimethicones enhance the effectiveness of Personal Care products and are particularly effective as conditioner additives.

Clearco Dimethicone Fluid 10,000cSt is a high viscosity 100% Dimethicone also known as Polydimethylsiloxane (CAS # 63148-62-9). It is clear, colorless, odorless and inert.

High Viscosity Dimethicone Fluids are used in a variety of personal care products, providing a soft velvety feel when applied to hair and skin. Medium viscosity dimethicones improve the feel of lotion products, and provide a hydrophobic, protective, but breathable barrier to the skin (allows skin to perspire), which imparts softness and emolliency.

Dimethicone Fluids provide lubricity without greasiness and prevent stickiness in skin care products. 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.

Dimethicones offer good spreadability due to their low surface tension, which enables the fluid to spread rapidly, providing ease of application (lower viscosities are even better). Dimethicones are compatible 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
Appearance	Clear Liquid – Odorless & Tasteless
Consistency	Honey
Non-Flammable	Yes
Thermally Stable	Yes
Availability	1 – gallon container 5 – gallon cube 55-gallon drums (200kg)
Minimum Order	1-gallon

Features and Benefits

- High Viscosity
- Excellent Lubrication
- Low Surface Tension – High Spreadability
- Provides a soft, emollient feel to skin
- Prevents stickiness in skin care products
- Compatible with a wide range of solvents
- Hydrophobic – water repellent
- Protects skin against transdermal water loss
- Inert- improves stability and shelf-life of formulations
- Increase Body & Shine in Hair Care Products
- Improve Manageability – make hair easier to comb
- Seal-in moisture – prevents hair damage

Typical Product Data

Viscosity	Specific Gravity	Refractive Index	Pour Point	Flash Point	Surface Tension Dynes cm @ 25C	Thermal Expansion cc/cc/C 0-150°C	Molecular weight
5,000	0.973	1.4035	-48°C	315	21.3	0.00093	49,350
10,000	0.974	1.4035	-48°C	315	21.5	0.00093	62,700
12,500	0.974	1.4035	-46°C	315	21.5	0.00093	67,700
30,000	0.976	1.4035	-43°C	315	21.5	0.00093	91,700
60,000	0.976	1.4035	-42°C	315	21.5	0.00092	116,500
100,000	0.977	1.4035	-41°C	321	21.5	0.00092	139,000

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