



Standard Viscosity Dimethicone Fluids (50cSt, 100cSt, 200cSt, 350cSt, 500cSt, 1,000cSt)

100% Polydimethylsiloxane CAS # 63148-62-9 (INCI Name – Dimethicone)



Dimethicone Standard Viscosity Fluids enhance performance in skin and hair products.

Clearco Dimethicone Fluid Standard Viscosities are medium viscosity 100% Dimethicone also known as Polydimethylsiloxane (CAS # 63148-62-9). They are clear, colorless, odorless and essentially inert. The viscosities range from 5cSt to 1,000cSt.

DMF standard viscosities 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.

Clearco Standard viscosity 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
CAS #	63148-62-9
INCI Name	Dimethicone
Appearance	Clear Liquid – Odorless
Non-Flammable	Yes
Thermally Stable	Yes
Availability	1 – gallon 5 – gallon 55-gallon drums (200kg)
Minimum Order	1 Gallon

Features and Benefits

<ul style="list-style-type: none"> • Medium 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

Typical Product Data

Viscosity	Specific Gravity	Refractive Index	Pour Point	Flash Point	Surface Tension Dynes cm @ 25°C	Thermal Expansion cc/cc/°C 0-150°C	Thermal Conductivity (BTU) by Wt.	Maximum Volatility %	Specific Heat BTU/lb. F
50	0.960	1.402	-65°C	285°C	20.8	0.00106	0.087	0.5	0.36
100	0.966	1.4030	-65°C	315°C	20.9	0.000925	0.090	0.5	0.36
200	0.968	1.4031	-60°C	315°C	21.0	0.000925	0.090	0.5	0.36
350	0.970	1.4032	-60°C	315°C	21.1	0.000925	0.092	0.5	0.36
500	0.971	1.4033	-55°C	315°C	21.1	0.000925	0.092	0.5	0.36
1,000	0.971	1.4035	-50°C	315°C	21.1	0.000925	0.092	0.5	0.36

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