



Dimethicone Fluid 10cSt (DMF-10cSt)

Low Viscosity Silicone (CAS # 63148-62-9) INCI Name: Dimethicone



DMF-10cSt provides low surface tension, excellent lubrication and is compatible with a wide array of cosmetic solvents.

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

DMF-10cSt is used in a variety of personal care products, providing a soft velvety feel when applied to hair and skin. Dimethicone Fluid 10cSt provides a hydrophobic, protective, but breathable barrier to the skin (allows skin to perspire), imparting softness and emmoliency. It provides lubricity without greasiness and prevents stickiness in skin care products.

Clearco Dimethicone-10cSt offers high spreadability due to its low surface tension, which enables the fluid to spread rapidly providing ease of application. DMF-10cSt is compatible with a wide range of cosmetic solvents and is particularly advantageous when blended with cyclomethicones.

SPECIFICATIONS

| | |
|-------------------------|-------------------------------------|
| Chemical Name | Polydimethylsiloxane |
| INCI/CTFA Name | Dimethicone |
| CAS # | 63148-62-9 |
| Appearance | Clear Liquid – Odorless & Tasteless |
| Viscosity Class | Low |
| Non-Flammable | Yes |
| Thermally Stable | Yes |
| Availability | 1 – 5 – 55 gallon drums |
| Minimum Order | 1 Gallon |

Features and Benefits

- Low 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

TYPICAL PRODUCT DATA

| cSt. | Specific Gravity | Retractive Index | Pour Point °F | Flash Point Closed Cup | Surface Tension Dynes cm @ 25C | Thermal Conductivity @ 50°C | Volatile content @ 70°C | Specific Heat @ 25°C |
|------|------------------|------------------|---------------|------------------------|--------------------------------|-----------------------------|-------------------------|----------------------|
| 10 | 0.935 | 1.3989 | -120° | 211°C / 411°F | 20.1 | 0.00032 | 0.68% | 0.360 |

TYPICAL PRODUCT DATA (cont'd)

| Viscosity-Temperature Coefficient | Coefficient of Expansion |
|-----------------------------------|--------------------------|
| 0.56 | 0.00108 |

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