MANTA

Technical Data Sheet

Version: 1.0

Manta F1006(0.65cSt)

Volatile Dimethyl Silicone Fluid

Description

Manta F1006 is an ultra-low viscosity, highly volatile siloxane fluid (Disiloxane) engineered to optimize the application performance of personal care products. It functions as a premium transient solvent, characterized by its exceptionally low surface tension and rapid flash-off evaporation profile. Due to its superior miscibility with a wide range of lipophilic ingredients—including natural lipids and waxes—it serves as an ideal delivery vehicle for antiperspirants, color cosmetics, and lightweight serums. It ensures uniform active ingredient coverage while leaving a completely dry, refreshing, and non-tacky finish.

Typical Physical Properties

INCI/CTFA	Disiloxane
Chemical Name:	Hexamethyldisiloxane
CAS NO.:	107-46-0
Appearance	Colorless transparent fluid
Odor	Characteristic smell
Refractive index (25°C)	1.3730-1.3770
Specific gravity (25°C)	0.750-0.770
Viscosity (cSt, 25°C)	0.65-1.20
Flash Point(°C)	-1

Features

1. Exhibits exceptional spreading capabilities combined with an ultra-fast evaporation rate.
2. Functions as a high-performance cosmetic solvent and transient carrier.
3. Highly compatible with a diverse array of organic and silicone-based cosmetic ingredients.
4. Completely non-greasy and non-occlusive, ensuring no pore-clogging or heavy residue.
5. Leaves no oily build-up or film on the skin or hair after evaporation.
6. Features a low heat of vaporization, ensuring rapid evaporation without causing an intense stinging or cooling sensation on the skin.

Applications

Manta F1006 (0.65 cSt) is a versatile base liquid and diluent for:

1. Personal Care: Antiperspirants, deodorants, and skin cleansing lotions.
2. Color Cosmetics: Quick-dry foundations, makeup primers, and nail polishes.
3. Hair Care: Hair gels and lightweight conditioning mists.

How to Use

1. Processing: Can be used alone as a primary carrier or blended seamlessly with other liquid cosmetic raw materials.
2. Compatibility: Demonstrates excellent miscibility with absolute ethanol and common organic cosmetic solvents.
3. Evaporation Control: When blended with cyclic silicone oils, the difference in volatility allows formulators to precisely adjust the residence time of the silicone film on the skin.
4. Recommended Dosage: Highly variable; can be used from small percentages as a sensory additive up to major proportions as a primary solvent/carrier.

Packaging

In 150kg drum, 750kg IBC

Safety and Storage

Flammable liquid. Transported as dangerous goods: UN1993, Class 3, Packing Group III (see SDS). Keep away from heat, sparks and open flame. Prevent from the exposure of moisture, acid, alkalis and other impurities. When stored in the original unopened containers, this product has a usable life of 24 months from the date of production.

Contact Information

Nanjing Manta New Material Co., Ltd
Add: Room 102-247, Building 17, No. 1 Qiliqiao North Road, Nanjing Area of the China (Jiangsu) Pilot Free Trade Zone, Nanjing, China
Factory: Miaoguan Town Industrial Park, Sishui County, Jining City, Shandong Province, China
Mob: 0086 18962800162
Mail:sales@mantasil.com Web:www.mantasilicone.com