MANTA

Technical Data Sheet

Version: 1.0

Manta F1006(1cSt)

Volatile Dimethyl Silicone Fluid

Description

Manta F1006 (1 cSt) is a low-molecular-weight linear organosiloxane (Trisiloxane). It is a highly versatile fluid that efficiently bridges the gap between industrial chemical synthesis and premium personal care.

In polymer synthesis, it serves as a highly precise chain-length regulator (end-capping agent) for modifying molecular weight distributions. Its low viscosity, exceptional purity (≥99%), and chemically inert nature make it an ideal reaction medium for processing complex polysiloxanes.

In personal care formulations, it functions as a fast-evaporating, transient carrier. It delivers active ingredients smoothly across the skin before flashing off, ensuring a distinctly dry, non-greasy, and weightless sensory finish.

Typical Physical Properties

INCI	Trisiloxane
Chemical Name:	Octamethyltrisiloxane
CAS NO.:	107-51-7
Appearance	Colorless transparent fluid
Purity %	≥99%
Refractive index (25°C)	1.3830-1.3850
Specific gravity (25°C)	0.82
Viscosity (cSt, 25°C)	0.9-1.10
Flash Point(°C)	29
Boiling Point(°C, 101.325KPa)	153

Features

1. Exhibits a high spreading coefficient combined with a fast, residue-free evaporation rate.
2. Functions dual-purpose: as a precision end-capping agent in chemical synthesis and a premium transient solvent in cosmetics.
3. Highly pure (≥99%) profile, delivering a clean and odorless user experience.
4. Completely non-greasy, providing a luxurious dry-touch feel in topical applications.
5. Chemically stable and compatible with a wide array of organic lipids and silicone-based ingredients.

Applications

Manta F1006 (1 cSt) is used in:

1. Industrial & Chemical Synthesis: Functions as a reactive chain-stopper (end-capping agent) in silicone polymerization and acts as a high-purity, inert reaction medium.
2. Personal Care & Cosmetics: Acts as a premium volatile base fluid for antiperspirants, skincare serums, and color cosmetics that require a fast-drying, weightless finish.
3. Medical & Healthcare: Utilized as a highly pure carrier fluid or solvent in specialized topical dermatological formulations.

Packing

In 200L drum, 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