MANTA

Technical Data Sheet

Version: 1.0

Manta F1046 Phenyl Silicone Fluid

Description

Manta F1046 is a low-viscosity, physiologically inert phenyl-modified siloxane fluid, distinguished by its exceptional compatibility with organic cosmetic solvents.

Formulated as a low-molecular-weight carrier, it exhibits a tailored volatility profile that provides excellent spreadability before drying down. It delivers a uniquely dry, refreshing, and non-tacky sensory experience. Highly versatile, it acts as an ideal conditioning agent and premium carrier for both skin and hair, significantly enhancing the perceived value of personal care formulations.

Typical Physical Properties

INCI/CTFA	Phenyl Trimethicone
Chemical Description:	Phenyl-Modified Polysiloxane Fluid
CAS NO.:	73559-47-4
Appearance	Colorless transparent fluid
Refractive index (25°C)	1.4300-1.4500
Specific gravity (25°C)	0.850-0.950
Viscosity (cSt, 25°C)	3.0-7.0

Features

1. Features a low-molecular-weight organosiloxane structure that ensures an ultra-light formulation feel.
2. Physiologically inert.
3. Exhibits outstanding compatibility and miscibility with a wide array of cosmetic solvents and organic esters.
4. Delivers exceptional conditioning properties, improving hair manageability and skin softness.
5. Imparts a highly desirable dry, refreshing, and distinctly non-greasy sensory finish.

Applications

Manta F1046 can be used in personal care formulations, including:

1. Skin Care: Facial serums, lightweight moisturizers, and anti-aging creams.
2. Sun Care: Sunscreens and after-sun lotions (improves spreadability and reduces the heavy feel of organic UV filters).
3. Color Cosmetics: Liquid foundations, primers, and concealers (ensures a smooth, dry canvas).
4. Body & Hair Care: Antiperspirants, deodorants, and hair conditioning sprays (adds shine without weighing hair down).

How to use

1. Processing: Highly versatile; can be used directly as a primary carrier, a co-solvent, or an active emollient additive.
2. Emulsification: Easily incorporated into both Oil-in-Water (O/W) and Water-in-Oil (W/O) emulsion systems using standard processing techniques (add directly to the oil phase).
3. Recommended Dosage: 1.0% - 50.0% of the total formulation, depending on the specific application and desired sensory profile.

Packing

In pails, drum

Safety and Storage

Keep away from heat 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