MANTA

Technical Data Sheet

Version: 1.0

Manta F10161 Hair and Skin Care Silicone Fluid

Description

Manta F10161 is an ultra-high molecular weight Dimethicone Gum precisely dispersed in a volatile Cyclopentasiloxane (D5) carrier.

Designed as a premier sensory modifier, this product utilizes the volatile carrier to deliver the high-viscosity gum evenly across the skin or hair surface. Upon application, the carrier provides excellent spreadability before evaporating at a controlled rate (moderate volatility), depositing a continuous, breathable, and hydrophobic film. This results in a sophisticated velvety-soft texture and a non-greasy, satin finish that significantly enhances the perceived value of formulations.

Typical Physical Properties

INCI/CTFA	Cyclopentasiloxane (and) Dimethicone
Chemical Name:	Silicone Gum Blend in Volatile Carrier
CAS NO.:	541-02-6 & 63148-62-9
Appearance	Colorless transparent fluid
Refractive index (25°C)	1.3950-1.4050
Specific gravity (25°C)	0.945-0.965
Viscosity (cSt, 25°C)	3,500~5,500

Note: These values are not intended for use in preparing specifications.

Features

Imparts a velvety and silky skin feel;
Provides exceptional gloss and superior sensory properties;
Forms a soft, breathable silicone protective film;
Enhances the substantivity and long-lasting effects of active ingredients on the skin;
Reduces friction to improve slip and significantly boosts water resistance;
Exhibits excellent hydrophobicity.

Applications

Manta F10161 can be used in personal care formulations, including:
Hair Care: Hair serums, conditioning oils (provides shine and smooths split ends), and styling aids;
Skin Care: Facial creams, body lotions, and anti-aging serums;
Sun Care: Sunscreens and after-sun products (improves water resistance);
Color Cosmetics: Liquid foundations and makeup primers.

How to Use

Temperature Control: Due to the volatility of the cyclopentasiloxane carrier, it is highly recommended

to process Manta F10161 at room temperature or below 50°C.
Processing: If the oil phase requires melting, cool the batch to 50°C or lower before slowly adding this product under continuous stirring. Add any remaining heat-sensitive ingredients afterward.
Compatibility & Dilution: Demonstrates good compatibility with oil-phase cosmetic ingredients such as pigments, natural oils, and fragrances. If lower viscosity is desired, it can be further diluted with volatile silicones (e.g., cyclomethicone).
Recommended Dosage: 3.0% - 8.0% in standard hair care and skin care products; 40.0% - 50.0% in concentrated hair serums/oils.

Packing

In 50kg plastic pail; 200kg iron drum; IBC

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. This product is non-hazardous product.

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