

# Manta F1017 Hair and Skin Care Silicone Fluid

## Description

Manta F1017 is a high-performance conditioning fluid composed of ultra-high molecular weight Dimethiconol gum solvated in a non-volatile Dimethicone carrier.

Designed as a superior frizz-control agent, this blend leverages the gum-like rheology of Dimethiconol to coat the hair shaft with a continuous, hydrophobic sheath. Unlike lighter oils that may evaporate or absorb too quickly, Manta F1017 provides a substantive, long-lasting protective barrier. It transforms the texture of rough, damaged hair into a state of pliability and smoothness, while imparting a sophisticated, satin-matte finish to skin care formulations.

## Typical Physical Properties

INCI/CTFA	Dimethiconol (and) Dimethicone
Chemical Name:	Silicone Gum Blend in Non-Volatile Carrier
CAS NO.:	70131-67-8 & 63148-62-9
Appearance	Colorless transparent fluid
Refractive index (25°C)	1.3950-1.4050
Specific gravity (g/cm <sup>3</sup> , 25°C)	0.920-0.965
Viscosity (cSt, 25°C)	1,200~2,500

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

## Properties

1. Forms a complete, uniform, and non-occlusive protective film on the skin and hair surface.
2. Imparts a long-lasting, moist, and silky-smooth sensory profile.
3. Provides exceptional lubricity and reduces surface friction (slip) without clogging pores.
4. Delivers a sophisticated satin-matte finish, effectively masking the greasiness of other ingredients.
5. Exhibits outstanding hydrophobicity, significantly enhancing the water resistance of formulations.

## Applications

Manta F1017 is an additive for personal care products, including:

1. Hair Care: Anti-frizz serums, styling aids, and daily conditioners.
2. Skin Care: Moisturizing creams, lotions, and anti-aging formulations.
3. Color Cosmetics: Primers, foundations, and long-wear lip products.
4. Sun Care: Water-resistant sunscreens and after-sun gels.

## How to Use

1. Compatibility & Dilution: Highly compatible with oil-soluble cosmetic ingredients such as botanical oils, lipids, and fragrances. It can be further diluted with cyclic silicone oils (cyclomethicone) in any

proportion to adjust application viscosity.

2. **Thermal Stability:** Manta F1017 is suitable for hot-process formulations. However, it is recommended to maintain the operating temperature below 50°C. If heating is necessary for the oil phase, the total heating time should not exceed 30 minutes to maintain product integrity.

3. **Recommended Dosage:** 5.0% - 8.0% in skin care creams; 3.0% - 6.0% in hair care products; 40.0% - 50.0% in concentrated hair serums/oils.

### **Packing**

In 200L 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 at well 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**

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