MANTA

Technical Data Sheet

Version: 1.0

# Manta F1017A

Hair and Skin Care Silicone Fluid

## Description

Manta F1017A is an ultra-high molecular weight Dimethiconol within a non-volatile Dimethicone matrix.

Distinct from transient cyclic-based blends, this fluid provides sustained surface interaction. The hydroxyl groups on the Dimethiconol backbone facilitate strong physical adsorption to protein substrates (such as hair keratin), creating a durable, cohesive shield. This mechanism effectively seals the hair cuticle to repair split ends while imparting a rich, substantive velvety feel to the skin that persists significantly longer than volatile alternatives.

## Typical Physical Properties

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|---|---|
| INCI/CTFA | Dimethicone (and) Dimethiconol |
| Chemical Name: | Silicone Gum Blend in Non-Cyclic Carrier |
| Appearance | Colorless transparent fluid |
| Refractive index (25°C) | 1.395-1.405 |
| Specific gravity (25°C) | 0.900-0.940 |
| Viscosity (cSt, 25°C) | 3,000~5,000 |

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

## Features

1. Forms a highly uniform and continuous protective film with exceptional substantivity.
2. Imparts a long-lasting, moist, and silky-smooth sensory profile to hair and skin.
3. Provides superior lubricity and reduces surface friction without clogging pores.
4. Offers excellent hydrophobicity, significantly enhancing the water resistance of formulations.
5. Delivers a rich, non-greasy finish that is ideal for intensive repair and long-wear products.

## Applications

Manta F1017A is used in:

1. Hair Care: Hair serums, split-end repair treatments, and intensive conditioners.
2. Skin Care: Anti-aging creams, body lotions, and protective hand creams.
3. Color Cosmetics: Long-wear liquid foundations and makeup primers.
4. Sun Care: Water-resistant sunscreens and after-sun lotions.

## How to Use

1. Compatibility & Dilution: Exhibits excellent compatibility with oil-phase cosmetic raw materials, including natural lipids and fragrances. It can be diluted with cyclic silicone oils (cyclomethicone) in any proportion to adjust viscosity.

2. Thermal Stability: Manta F1017A is heat-stable and can be incorporated into the oil phase. However, it is recommended to keep the operating temperature below 85°C. To maintain optimal stability, heating time during the emulsification process should not exceed 30 minutes.
3. Recommended Dosage: 3.0% - 10.0% in skin care creams; 3.0% - 6.0% in standard hair care products; 40.0% - 50.0% in concentrated hair oils/serums.

## Packing

In 50kg pail, 195kg iron 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. This product is non-hazardous product.

## Contact Information

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