MANTA

Technical Data Sheet

Version: 1.0

Manta W341 Oil-soluble Silicone Wax

Description

Manta W341 is a cosmetic-grade, oil-soluble silicone wax. It is an alkyl-modified silicone that bridges the gap between silicones and organic oils.

Unlike traditional volatile silicones, Manta W341 is non-volatile and provides excellent substantivity (adhesion) to the skin and hair. It forms a breathable protective film that enhances gloss and locks in moisture. It offers a unique sensory profile: rich, oily, yet soft and silky, making it ideal for formulations requiring long-lasting moisturization and emolliency.

Typical Physical Properties

INCI/CTFA	Cetyl Dimethicone
CAS NO.:	191044-49-2
Appearance	Colorless to pale yellow liquid
Refractive Index (25°C)	1.4350 - 1.4550
Specific Gravity (25°C)	0.820 - 0.860
Viscosity (cSt, 25°C)	20 - 100
Solubility:	Insoluble in water, soluble in organic oils and silicones

Features

1. Sensory Experience: Provides a soft, silky, and rich oily feel (lubricious) without being heavy;
2. Film-Forming & Gloss: Forms a protective film on the skin/hair surface, significantly improving brightness and gloss;
3. Moisturizing: Excellent occlusion properties help reduce transepidermal water loss (TEWL);
4. Adhesion: Good substantivity; stays on the skin and hair well (Good skin adhesion);
5. Solubility: Oil-soluble; compatible with many organic oils and silicones.

Applications

1. Skin Care: Moisturizing creams, lotions, and body butters (especially for dry skin);
2. Color Cosmetics: Lipsticks and lip glosses (improves shine and glide), Foundations (improves adhesion);
3. Hair Care: Hair serums, conditioners, and hair oils (provides shine and manageability);

How to use

Processing:

Add Manta W341 into the oil phase;

It can be used as the primary oil in the formulation or blended with other oils/esters;

Mix well with other oil-phase ingredients.

Recommended Dosage:
1.0% – 10.0% depending on the desired richness and gloss.

Packing

In 16kg pail

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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