MANTA

Technical Data Sheet

Version: 1.0

Manta F1230 Functional Silicone Fluid

Description

Manta F1230 is a specialized Carbinol-Functionalized (Alcohol-Modified) Silicone Fluid. Structurally, it is a linear dimethicone capped with polar alcohol-ether groups.

This unique hybrid architecture imparts a moderate polarity to the silicone backbone, fundamentally altering its solubility profile. Unlike standard silicones, Manta F1230 acts as a powerful Compatibilizer and Coupling Agent, bridging the gap between non-polar silicones and polar organic ingredients (such as esters, alcohols, and fragrances). It functions as a superior suspension aid for pigments and particles, ensuring high stability in color cosmetics and sunscreens.

Typical Physical Properties

INCI/CTFA	Bishydroxyethoxypropyl Dimethicone
Chemical Name:	Carbinol Functional Silicone
CAS NO.:	156327-07-0
Appearance	Colorless to slightly yellow, transparent to slightly turbid liquid
Refractive Index	1.42
Viscosity (cSt, 25°C)	60

Features

1. Acts as a powerful compatibilizer between non-polar silicones and polar organic ingredients.
2. Provides exceptional dispersion and suspension capabilities for pigments and inorganic powders.
3. Significantly enhances formulation stability in complex cosmetic emulsion systems.
4. Improves the sensory profile and uniform spreadability of color cosmetics.

Applications

Manta F1230 can be widely used in a variety of personal care products, including:

1. Color Cosmetics: Liquid foundations, concealers, and lip products (ensures optimal pigment dispersion).
2. Sun Care: Sunscreens (improves the suspension and distribution of physical UV filters like TiO2 and ZnO).
3. Skin Care & Body Care: Facial creams, body lotions, and cuticle care products.
4. Personal Care: Antiperspirants and deodorants (prevents active salt agglomeration).

How to Use

1. Processing: Can be added directly to the oil/silicone phase. For color cosmetics and sunscreens, it is highly recommended to pre-mix Manta F1230 with the pigments or inorganic powders before incorporating them into the main batch to maximize dispersion efficiency.

2. Recommended Dosage: 0.1% - 20.0% of the total formulation, depending on the powder loading and desired formulation stability.

Packing

In 20L, 200L 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 12 months from the date of production.

Contact Information

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