MANTA

Technical Data Sheet

Version: 1.0

Manta F10451 Cyclic Silicone Fluid

Description

Manta F10451 is a calibrated binary blend of volatile Cyclotetrasiloxane (D4) and Cyclopentasiloxane (D5). It is designed as an ultra-light, low-viscosity carrier fluid with a tailored evaporation profile.

By incorporating the highly volatile D4 component, Manta F10451 offers a faster flash-off rate than pure D5. It functions as a transient carrier that spreads active ingredients evenly and then evaporates rapidly, leaving absolutely no residue or buildup. It provides a unique vanishing texture, creating an immediate sensation of dryness and freshness on the skin. It also exhibits superior solvency for silicone gums and resins compared to higher molecular weight volatiles.

Typical Physical Properties

INCI/CTFA	Cyclotetrasiloxane (and) Cyclopentasiloxane
Chemical Name:	Volatile Cyclic Polysiloxane Blend (D4/D5)
CAS NO.:	556-67-2 & 541-02-6
Appearance	Colorless transparent fluid
Refractive index (25°C)	1.396
Specific gravity (25°C)	0.950
Viscosity (cSt, 25°C)	2.2

Features

Lightweight & Volatile: Evaporates quickly from the skin or hair, leaving absolutely no greasy residue;

Excellent Spreadability: Provides a silky, smooth texture and superior slip to skincare and haircare products;

Superior Solubility: Highly compatible with a wide range of organic oils and silicones, enhancing overall formulation stability.

Applications

Manta F10451 can be widely used in a variety of personal care products, including:

1. Skincare: Used as a transient carrier in serums, primers, and sunscreens to deliver a smooth, matte finish while helping active ingredients spread evenly;
2. Haircare: Incorporated into leave-in conditioners and heat-protectant sprays to provide brilliant shine, detangling, and frizz reduction without weighing the hair down;
3. Color Cosmetics: Acts as a key volatile carrier in liquid foundations, BB creams, and lip products to ensure a lightweight, easily blendable application.

Packing

In 190kg iron drum, 950kg 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.

Contact Information

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