

# 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;

**Non-Comedogenic:** Does not clog pores, making it highly suitable for facial cosmetic applications;

**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:

- Skincare:** Used as a transient carrier in serums, primers, and sunscreens to deliver a smooth, matte finish while helping active ingredients spread evenly;
- Haircare:** Incorporated into shampoos, conditioners, and heat-protectant sprays to provide brilliant shine, detangling, and frizz reduction without weighing the hair down;
- 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 at well 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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