



Silfluo LR-TMS

Silicone MQ Resin

Description:

Silfluo LR-TMS series is cross-linked Trimethylsiloxysilicate (Silicone MQ Resin) polymers, available in both 100% active solid powders and pre-dispersed liquid blends. Specifically for personal care and color cosmetics industries, these three-dimensional siloxane network structures transition into durable, flexible, and breathable films upon application. They deliver wash-off resistance, emollience, and a non-tacky sensory profile, acting as the film-forming matrix for long-lasting cosmetic formulations.

CAS: 68988-56-7

Typical Technical Properties:

Solid Powder Series_100% Active Resin)

Silfluo Code:	LR-TMS-1	LR-TMS-2	LR-TMS-3	LR-TMS-4
INCI Name	Trimethylsiloxysilicate			
Appearance	White Powder			
Resin %	100			
Particle Size(um)	<150	<80	<80	<80
Film Flexibility	★★★★	★★★	★★	★★
Long-lasting Waterproof	★	★★	★★★	★★★

Liquid Blend Series(Pre-dispered)

Silfluo Code:	LR-TMS-1	LR-TMS-2	LR-TMS-3
INCI Name	Cyclopentasiloxane (and) Trimethylsiloxysilicate	Dimethicone (and) Trimethylsiloxysilicate	Isododecane (and) Trimethylsiloxysilicate
Appearance	Clear Liquid		
Resin %	50	50	20
Viscosity (mPa.s)	70-200	300-700	3-10
Film Flexibility	★★★★	★★★★	★★★
Long-lasting Waterproof	★★★★	★★★	★★★★

Features:

1. Film-forming matrix

Forms a flexible siloxane film on skin and hair substrates.

Technical Data Sheet



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The film can reduce tacky or rigid residue in suitable formulations.

2. Wash-off resistance

Provides water resistance and humidity resistance in selected skin and hair care systems.

It can support retention of moisture and active ingredients in the applied film.

3. Pigment adhesion

Helps fix cosmetic pigments in place and reduce color transfer, smudging, and agglomeration.

It can support a smooth formulation profile.

4. Emollience

Can reduce transepidermal water loss in selected skin care formulations.

It provides a silky and comfortable sensory feel.

5. Hair anti-frizz control

Used in hair care compositions for humidity resistance, frizz control, volume, and styling support.

6. Formulation compatibility

Supplied as a flowable powder.

It can be compounded with polydimethylsiloxanes, volatile cyclomethicones, and cosmetic esters.

Applications

1. Transfer-resistant color cosmetics

Used as a base resin in transfer-resistant lipsticks, long-wear lip glosses, eyeliners, and BB creams.

2. Sun care and protection

Used as a wash-off resistant agent in sunscreen, baby protective cream, and insect repellent formulations.

3. Antiperspirants and deodorants

Used to reduce tackiness and support deposition of antiperspirant salts on the skin.

4. Hair styling and conditioning

Used in hair serums, leave-in conditioners, and styling sticks for humidity resistance, frizz control, and volume support.

5. Skin care emollients

Used in body lotions and facial creams as a film-forming barrier agent for moisture-loss control and a smooth, non-greasy after-feel.

Package & Storage:

25kg barrel for powder, 40kg or 200kg drum for liquid. Packaging options are available upon request.

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep in unopened containers. Transported as non-hazardous substance.

Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.