



Technical Data Sheet

DOWSIL™ 593 Fluid

INCI NAME: Dimethicone and Trimethylsiloxysilicate

Features & Benefits

- Film barrier properties
- Improve wash off resistance
- Long lasting emolliency with less slipperiness

Applications

- DOWSIL™ 593 Fluid has many uses in skin care product formulations; such as protective creams and lotions.
- It is ideal in formulating products for "working hands" where lubricity is undesirable.
- Also a useful ingredient in sunscreen creams and lotions.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		Clear, viscous fluid
Silicone content	%	100
Viscosity at 25°C	mm ² /s	400–1000
Refractive index at 25°C		1.408–1.410
Cyclotetrasiloxane (D4) content	%	< 0.1
Cyclopentasiloxane (D5) content	%	< 0.1

Description

DOWSIL 593 Fluid is a combination of a dimethylsilicone polymer and a high molecular weight trimethylsiloxysilicate resin. It has properties similar to a moderately high viscosity polydimethylsiloxane fluid but with superior water repellency.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

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Usable Life And Storage

When stored at or below 25°C in the original unopened containers, this product has a usable life of 30 months from the date of production.

Packaging Information

This product is available in 20 kg pails and 210 kg drums.

Samples are available in a 500 ml bottle.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health And Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

Compatibility

Type of material	10% DOWSIL 593 Fluid	50% DOWSIL 593 Fluid	90% DOWSIL 593 Fluid
Water	I	I	I
Alcohols			
Ethanol (95%)	I	I	I
Stearyl alcohol	I	I	I
Cosmetic materials			
Phenyl trimethicone	C	C	C
Beeswax	I	I	I
Glycerin	I	I	I
Glycerin stearate	I	I	D
Isopropyl myristate	C	C	C
Lanolin	I	I	I
Mineral oil	I	I	C
Paraffin wax	I	I	C
Propylene glycol	I	I	I
Ethylhexyl methoxycinnamate	I	I	I

C = Compatible, I = Incompatible, D = Dispersible

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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