



## Technical Data Sheet

### DOWSIL™ FB-3456 Blend

INCI: Caprylyl Methicone (and) Dimethicone

#### Features & Benefits

- Compatible with a wide range of cosmetic ingredients
- Dispersing medium for hydrophobic powders and pigments
- Clear and colorless
- Improve spreadability, reduce tackiness and greasy feel of vegetable oils
- Low D4, D5 & D6 fluid (< 0.1%)

#### Composition

- Caprylyl modified trisiloxane mixed with volatile & non-volatile dimethicone

#### Applications

- Color cosmetics
- Sun care
- Skin care (face and body)
- Hair care (e.g. leave-on treatment)

#### Typical Properties

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

Property	Unit	Result
Appearance		Clear liquid
Viscosity at 25°C	cSt	2–4
Refractive Index at 25°C		1.4040
Specific Gravity		0.845–0.870
Cyclotetrasiloxane (D4) Content	%	< 0.1
Cyclopentasiloxane (D5) Content	%	< 0.1
Cyclohexasiloxane (D6) Content	%	< 0.1

#### Description

DOWSIL™ FB-3456 Blend is a mixture of caprylyl methicone with volatile & non-volatile dimethicone fluid.





#### How to Use

DOWSIL™ FB-3456 Blend is added into the oil phase and mixed until solved or dispersed evenly. Due to the presence of the caprylyl group on the silicone, it shows good compatibility with a wide range of cosmetic ingredients including organic oils.

## Compatibility

DOWSIL™ FB-3456 Blend shows a compatibility with a wide range of cosmetic ingredients.

	Ratios of DOWSIL™ FB-3456 Blend: Other Material		
	10:90	50:50	90:10
C12-15 Alkyl Benzoate	C	C	C
Caprylic/Capric Triglyceride	C	C	C
Cetyl Ethylhexanoate	C	C	C
Dicaprylyl Carbonate	C	C	C
Ethylhexyl Methoxycinnamate	C	C	C
Isododecane	C	C	C
OctylDodecanol	C	C	C
Polyisobutene	C	C	C
Argan Oil	C	C	C
Meadowfoam Seed Oil	C	C	C
Olive Oil	C	NC	C
DOWSIL™ 556 Cosmetic Grade Fluid	C	C	C
DOWSIL™ 5562 Carbinol Fluid	C	C	C
DOWSIL™ RSN-0749 Resin	C	C	C
DOWSIL™ FA 4002 ID Silicone Acrylate	C	C	C
DOWSIL™ CB-9112 Blend	C	C	C
XIAMETER™ PMX-1501 Fluid	C	C	C
XIAMETER™ PMX-1503 Fluid	C	C	C
Fluid AP (PPG-14 Butyl Ether)	C	NC	C
EcoSmooth™ Universal Fluid 75-H-450	NC	NC	NC
Butylene Glycol	NC	NC	NC
Water	NC	NC	NC

	Powder Content in DOWSIL™ FB-3456 Blend (wt%)			
	12.5%	15%	17.5%	20%
DOWSIL™ EP-9610 Cosmetic Powder				
Texture	Liquid	Viscous Gel	Paste	Waxy Paste

**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 DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**Usable Life and  
Storage**

When stored between 0°C and 40°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

**Packaging  
Information**

This product is available in 180 kg drums.

**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, [dow.com](http://dow.com), or consult your local Dow representative.

**Disposal  
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

**Product  
Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products — from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

**Customer Notice**

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