



Technical Data Sheet

DOWSIL™ CB-3046 Fluid

Superior frizz control with improved style ability

INCI Name: Dimethicone and Phenyl Trimethicone and Trimethylsiloxysilicate and Dimethiconol

Features & Benefits

- Suitable for water based and anhydrous formulations
- Clear formulations possible
- Cold processing
- Listed in the Catalogue of Cosmetics Ingredients Used in China
- Typical D4 and D5 content is < 0.1%
- Superior frizz control
- Long lasting frizz control
- Ability to maintain style
- Curl definition
- Shine
- Heat protection
- Enhanced hair alignment
- Natural look and feel
- Suitable for different hair types

Composition

- Silicone fluid blend

Applications

- Leave-in hair products including creams, lotions, cuticle coats, pomades and non-aerosol sprays

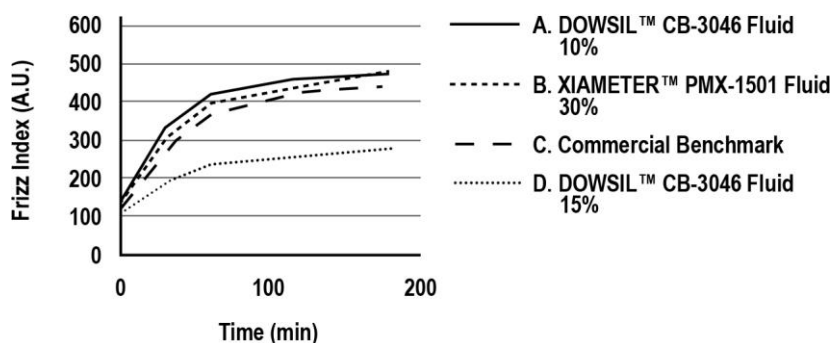
Typical Properties

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

Property	Unit	Result
Silicone Content	%	100
Appearance		Clear liquid
Viscosity	mm ² /s	250–500
Refractive Index (21°C)		1.41–1.42
Specific Gravity at 25°C (77°F)		0.98

Description

DOWSIL™ CB-3046 Fluid is an optimized blend of silicones specifically developed to provide superior frizz control performance (Figure 1) and improved style ability. It has been designed for leave-in conditioners such as creams, lotions, cuticle coats, pomades and non-aerosol sprays.



Significant difference (99.9% confidence) between DOWSIL CB-3046 Fluid at 15% and the other three products.

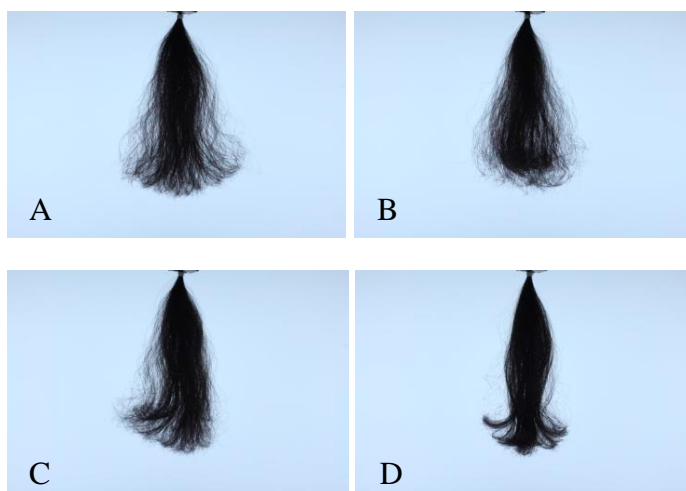


Figure 1: Frizz Control at 80% Relative Humidity, 25°C

How To Use

DOWSIL CB-3046 Fluid can be added to the oil phase of the formulation. It is easy to emulsify with standard emulsifiers by common techniques. Recommended use levels for hair care leave-on products are 5% to 15%. Table 1 provides further information on compatibility of DOWSIL CB-3046 Fluid with other commonly used personal care ingredients.

Prototype formulations are available upon request.

How To Use (Cont.)

Table 1: Compatibility Chart

Ratios are shown in the format "Other materials: DOWSIL CB-3046 Fluid".

INCI Name	1:9	5:5	9:1
Water	NC	NC	NC
Glycerin	NC	NC	NC
Ethanol	NC	NC	NC
Isopropyl Alcohol	NC	NC	NC
Fatty Alcohols:			
Cetearyl Alcohol	C	C	C
Cetyl Alcohol	C	NC	NC
Stearyl Alcohol	NC	NC	NC
Vegetable Oils:			
Argan Oil	NC	NC	NC
Sunflower Oil	NC	NC	NC
Coconut Oil	NC	NC	NC
Esters:			
Isopropyl Myristate	C	C	C
Hydrocarbons:			
Mineral Oil	C	C	NC
DOWSIL™ Materials:			
Dimethicone, 5 cSt	C	C	C
Dimethicone, 500 cSt	C	C	C
Dimethicone, 60,000 cSt	C	C	C
Dimethicone, 300,000 cSt	C	C	C
Cyclopentasiloxane	C	C	C
Cyclopentasiloxane (and) Dimethiconol	C	C	C
Dimethicone (and) Dimethiconol	C	C	C
Amodimethicone	C	C	C
Bis (C13-15 Alkoxy) PG Amodimethicone	NC	NC	NC
Bis-Hydroxy/Methoxy Amodimethicone	C	C	C
Phenyl Trimethicone	C	C	C

C = compatible, NC = not compatible

Handling Precautions

DOWSIL CB-3046 Fluid is not harmful by inhalation in a non-aerosolized form. It is not recommended for use in aerosol applications. Please refer to the Aerosol Guidance document, published by Silicones Environmental, Health, and Safety Center (SEHSC).

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.

UNRESTRICTED – May be shared with anyone

©™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

DOWSIL™ CB-3046 Fluid

© 2017 The Dow Chemical Company. All rights reserved.

Usable Life And Storage

When stored between -18°C (-0.4°F) and 40°C (104°F) in original, unopened container this product has a usable life of a minimum 24 months from the date of production.

Packaging Information

This product is available in 20 kg pails and 200 kg drums. Samples are available in 500 ml bottles.

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.

<http://www.consumer.dow.com>

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

