

Dow Corning® TI-6021 W/O Formulation Aid

FEATURES & BENEFITS

- Silicone emulsifier
- Non-diluted material
- Hot and cold processing
- Formulation flexibility with a broad range of silicones and organics oil phases
- Low viscosity emulsions can be achieved

COMPOSITION

- Silicone emulsifier
- INCI name: PEG-10 Dimethicone

REGULATORY SUPPORT

Ingredient Information Package (IIP)

- Ingredient Regulatory Information
- Elemental Impurities
- Summary of Health Data or Opinion Letter

Formulation ingredient for topical consumer healthcare applications

APPLICATIONS

- *Dow Corning*® TI-6021 W/O Formulation Aid is a silicone emulsifier designed to prepare low viscosity water-in-silicone emulsions and water-in-silicone and organic oil emulsions. Such silicone emulsifier can be used in a range of dermatological consumer healthcare, or topical medicated skin care including creams, lotions, gel, sun care and hair care formulations.

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

CTM ¹	Property	Unit	Result
0176 B	Appearance		Light brown liquid
1100 N	Viscosity	mm ² /s	1000
1100 G	Specific gravity		1.007
0917 A	Flash point (closed cup)	°C	227
0208 EG	Non-volatile content	%	97
	Refractive index at 25°C		1.42
	Calculate HLB ²		4

¹CTM: Corporate Test Method, copies of CTMs are available on request.

²Calculate HLB = polyoxyethylene wt%÷5.

DESCRIPTION

Dow Corning TI-6021 W/O Formulation Aid is a low molecular weight ethoxylated silicone surfactant.

Its primary function is to produce water-in-silicone and water-in-silicone and oil emulsions with textures that range from lotion to cream, leaving a non-greasy after-feel on the skin.

Dow Corning TI-6021 W/O Formulation Aid is a non-diluted material and allows addition level as low as 2%. This addition level needs to be increased up to 6% when working at lower W/Si-oil ratio.

SPECIFIC TESTING

- Infrared identification on each batch.
- Tested for elemental impurities according to <232> and ICH Q3D guideline for metal impurities, every 2 years.

HOW TO USE

Stable emulsion can be prepared by slowly adding water to oil phase using a variety of common mixing devices. The oil phase should be prepared first by mixing *Dow Corning* TI-6021 W/O Formulation Aid with the selected low viscosity fluid and/or organic fluid. High shear mixing at the end of the emulsification process helps to decrease particle size.

REGULATORY INFORMATION

Dow Corning TI-6021 W/O Formulation Aid is produced at a Dow Corning manufacturing site registered as part of Dow Corning's global quality system according to ISO 9001:2008.

Dow Corning can provide an Ingredient Information Package (IIP) containing the following information:

- Ingredient Regulatory Information
- Elemental Impurities
- Summary of Health Data or Opinion Letter

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 CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE

Dow Corning TI-6021 W/O Formulation Aid has a usable life of 18 months from date of production in original unopened container.

PACKAGING INFORMATION

This product is available in 18 kg pails and 190 kg drums.

Samples are available in 100 g bottles.

LIMITATIONS

This product is neither tested nor represented as suitable for specific pharmaceutical use. However, should you wish to use this product in pharmaceutical application, please contact Dow Corning to discuss such potential use.

It is the user's role responsibility to ensure that their intended use of these materials complies with all regulatory and legal requirements applicable to such use in each relevant jurisdiction including targeted geographic regions of manufacture and supply.

HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

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 Corning'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.

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