



Dow Corning® TI-1010 Fluid, 0.65 cSt and 1 cSt

FEATURES & BENEFITS

- Clear
- High volatility
- Quick drying time
- Dry, smooth feel
- Non-greasy
- Non occlusive
- Low-odor
- Non sting

COMPOSITION

- **Chemical name:**
Hexamethyldisiloxane (0.65 cSt)
Octamethyltrisiloxane (1 cSt)
- **INCI name:**
Disiloxane (0.65 cSt)
Trisiloxane (1 cSt)
- **CAS number:**
107-46-1 (0.65 cSt)
107-51-7 (1 cSt)

REGULATORY SUPPORT

Ingredient Information Package (IIP)

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

Formulation ingredient for topical consumer healthcare application

APPLICATIONS

Dow Corning® TI-1010 Fluids is commonly used as base fluid in Topical formulation because of its volatility, spreadability and sensory benefits namely smooth and non-greasy feel on the skin. Due to its high volatility and its anti-caking effect, the fluid can be considered as a carrier for spray. This volatile silicone fluid is currently used in a range of consumer healthcare, medicated skin care or topical application as creams, gels, spray and wipes formulation.

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.

Test	Property	Unit	Result	
			Dow Corning® TI-1010 Fluid 0.65 cSt	Dow Corning® TI-1010 Fluid 1 cSt
0176 B	Appearance		Crystal clear liquid	Crystal clear liquid
0004 A	Viscosity at 25°C	mm ² /s	0.65	1
0001 AA	Specific gravity at 25°C		0.76	0.82
0006	Flash Point (close cup)	°C	-3	34

*CTM: Corporate Test Method, copies of CTM's are available on request

DESCRIPTION

Dow Corning® TI-1010 Fluid is a clear, colorless, low viscosity and highly volatile silicone linear siloxane available in a range of two narrow viscosities: 0.65 cSt and 1 cSt.

Dow Corning TI-1010 Fluid is used to formulate with other organic and inorganic material for topical application.

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

Dow Corning TI-1010 Fluid may be used alone or blended with other silicone or organic ingredients to provide a base for variety of topical formulations. It features good compatibility in most anhydrous alcohols and in many solvents used in topical medical device applications.

REGULATORY INFORMATION

Dow Corning TI-1010 Fluid 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 Ingredients 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.

Dow Corning TI-1010 Silicone Blend is highly flammable. Therefore, it must be stored in a flame proof, well ventilated area. Keep containers tightly closed and away from heat, sparks, open flames and other source of ignition. Take precautionary measures against static discharges (grounding, use of glassware). Handle in a well ventilated area.

USABLE LIFE AND STORAGE

Dow Corning TI-1010 Fluid 0.65 cSt has a usable life of 60 months from the date of production. Product should be stored at or below 25°C (77°F) in original unopened containers.

Dow Corning TI-1010 Fluid 1 cSt has a usable life of 48 months from the date of production. Product should be stored at or below 25°C (77°F) in original unopened containers.

Keep container closed and away from heat, sparks and open flames.

PACKAGING INFORMATION

Dow Corning TI-1010 Fluid is available in drums and pails.

Samples for *Dow Corning* TI-1010 Fluid are available in bottles.

LIMITATIONS

This product is not tested for specific pharmaceutical or medical device use(s). Should you wish to use this product in a pharmaceutical or medical device application, please contact Dow Corning to discuss such potential use.

It remains the User's responsibility to ensure the safety, efficacy and legal and regulatory compliance in each relevant jurisdiction (including targeted geographic regions of manufacture and supply) of these materials for its intended uses. Dow Corning makes no representation concerning the suitability of these products for any particular medical or pharmaceutical application. Under no circumstances should these materials be considered for implantation into the human body for periods that exceed 30 days in duration.

SHIPPING

DOT classification: Flammable

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.

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

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Table 1: Compatibility Data

Chemical name	Dow Corning® TI-1010 Fluid					
	0.65 cSt			1 cSt		
Silicone level	10%	50%	90%	10%	50%	90%
Alcohol and polyols						
Ethanol	C	C	C	C	C	C
Ethoxydiglycol	C	NC	C	C	NC	C
Glycerin	NC	NC	NC	NC	NC	NC
Octyldodecanol	C	C	C	C	C	C
Propylene Glycol	NC	NC	NC	NC	NC	NC
Squalane	C	C	C	C	C	C
Oil						
Almond oil	C	C	C	C	C	C
Castor oil	C	NC	NC	C	NC	NC
Jojoba oil	C	C	C	C	C	C
Ester						
Caprylic/Capric Triglyceride	C	C	C	C	C	C
C12-C15 Alkyl Benzoate	C	C	C	C	C	C
Coco-Caprylate/Caprates	C	C	C	C	C	C
Diisopropyl Adipate	C	C	C	C	C	C
Isopropyl Myristate	C	C	C	C	C	C
Isopropyl Palmitate	C	C	C	C	C	C
Hydrocarbons						
Mineral oil	C	C	C	C	C	C
Isododecane	C	C	C	C	C	C
Isopar H	C	C	C	C	C	C
Petrolatum	C	C	C	C	C	C
Silicones						
Dimethicone (20 cSt)	C	C	C	C	C	C
Dimethicone (100 cSt)	C	C	C	C	C	C
Dimethicone (350 cSt)	C	C	C	C	C	C
Dimethicone (1000 cSt)	C	C	C	C	C	C
Dimethicone (12,500 cSt)	C	C	C	C	C	C
Dimethicone and Dimethiconol	C	C	C	C	C	C
Hexamethyldisiloxane and Dimethiconol	C	C	C	C	C	C
Cyclopentasiloxane	C	C	C	C	C	C
Glyceryl esters						
Apricot Kernel Oil PEG-6 Esters	C	C	NC	C	C	NC
Alkoxyated Alcohols						
PEG-15 Stearyl Ether	C	C	C	C	C	C
PEG 8	NC	NC	NC	NC	NC	NC

C = Compatible, NC = Non Compatible (form 2 phases)

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