

Dow Corning[®] TI-1050 Fluid, 1.5 cSt

FEATURES & BENEFITS

- Clear
- Soluble in a wide range of solvents
- Compatible with a wide range of topical ingredients
- Excellent spreading
- Non occlusive
- Smooth and non greasy feel

COMPOSITION

- Polymethylsiloxane
- INCI Name: Dimethicone
- CAS Number: 141-62-8

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-1050 Fluid, 1.5 cSt is commonly used as base fluid in topical formulations because of its volatility, spreadability and sensory benefits namely smooth and non greasy feel on the skin. This volatile silicone fluid is currently used in a range of dermatological consumer healthcare, medicated skin care or topical applications as creams, sunscreen creams, gels, formulations for scalp and hair.

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
0004	Viscosity at 25°C	cSt	1.5
0176 B	Appearance		Crystal clear
0002	Refractive index at 25°C		1.3874
0044	Specific gravity at 25°C		0.851
0006	Flash point (open cup)	°C	57.2

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

DESCRIPTION

Dow Corning TI-1050 Fluid, 1.5 cSt is a clear, colorless, low viscosity and volatile polymethylsiloxane fluid.

Dow Corning TI-1050 Fluid, 1.5 cSt can be used as a carrier solvent for topical sprays due to high volatility.

Dow Corning TI-1050 Fluid, 1.5 cSt can provide short term lubrication, smooth feel, excellent spreading and non-greasy feel.

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-1050 Fluid, 1.5 cSt may be used alone or blended with other silicone or organic ingredients to provide a base for a 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-1050 Fluid, 1.5 cSt 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 AND STORAGE

Dow Corning TI-1050 Fluid, 1.5 cSt has a usable life of 48 months from the date of production.

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

PACKAGING INFORMATION

Dow Corning TI-1050 Fluid, 1.5 cSt is available in pail and drums.

Samples for *Dow Corning* TI-1050 Fluid, 1.5 cSt are available in bottles.

LIMITATIONS

This product is neither tested nor represented as suitable for specific pharmaceutical use. However, should you wish to use this product in a 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.

SHIPPING INFORMATION

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 customers' 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.**

**DOW CORNING DISCLAIMS
LIABILITY FOR ANY
INCIDENTAL OR
CONSEQUENTIAL DAMAGES.**

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Table 1: Compatibility Data

Type of material	Dow Corning TI-1050 Fluid, 1.5 cSt		
	10%	50%	90%
Weight percent of Dow Corning TI-1050 Fluid			
Alcohols and polyols			
Ethanol	C	C	C
Propylene glycol	NC	NC	NC
Octyldodecanol	C	C	C
Oleyl alcohol	C	C	C
Lauryl alcohol	NC	NC	NC
Oils			
Lanolin oil	C	NC	NC
Sunflower oil	C	C	C
Castor oil	NC	NC	NC
Almond oil	C	C	C
Coconut oil	NC	NC	NC
Corn oil	C	C	NC
Joboa oil	C	C	C
Palm oil	NC	NC	NC
Sesame oil	C	C	C
Soybean oil	C	C	C
Esters			
Isopropyl Myristate	C	C	C
Isopropyl Palmitate	C	C	C
Octylpalmitate	C	C	C
C12-C15 Alkyl benzoate	C	C	C
Caprylic/Capric Triglyceride	C	C	C
Coco-Caprylate/Caprate	C	C	C
Diisopropyl Adipate	C	C	C
Diisostearyl Fumarate	C	C	C
Diisostearyl Malate	C	C	C
Diocetyl Maleate	C	C	C
Isocetyl Stearate	C	C	C
Isopropyl Isostearate	C	C	C
Isopropyl Laurate	C	C	C
Isopropyl Stearate	C	C	C
Isostearyl Benzoate	C	C	C
Myristyl Ether Acetate	C	C	C
Myristyl Lactate	C	C	C
Octyldodecyl Stearoyl Stearate	C	C	C
Octylstearate	C	C	C
Tridecyl Neopentanoate	C	C	C
Triisocetyl Citrate	C	C	C

Type of material	Dow Corning TI-1050 Fluid, 1.5 cSt		
	10%	50%	90%
Weight percent of Dow Corning TI-1050 Fluid			
Hydrocarbons			
Mineral oil	C	C	C
Isododecane	C	C	C
Polydecene	C	C	C
Isopar H	C	C	C
Sunscren agent			
Octyl dimethyl PABA	C	C	C
Octyl salicylate	C	NC	C
Others			
Glyceryl trioctanoate	C	C	C
Polyglyceryl-3 diisostearate	NC	NC	NC
Water	NC	NC	NC
Silicone			
Cyclomethicone and dimethicone	C	C	C
Cyclopentailoxane and dimethicone	C	C	C
Dimethicone (20 cSt)	C	C	C
Dimethicone (100 cSt)	C	C	C
Dimethicone (1000 cSt)	C	C	C
Dimethicone (12,500 cSt)	C	C	C
Dimehiconol and dimethicone	C	C	C
Dimethiconol and hexamethyldisiloxane	C	C	C
Cyclopentasiloxane	C	C	C

C=Compatible, NC=Non-compatible