

Dow Corning[®] TI-1050 Fluid, 5 cSt and 10 cSt

FEATURES & BENEFITS

- Clear
- Soluble in a wide range of solvents
- Compatible with a wide range of topical ingredients
- Ease of spreading
- Lubricity
- Water repellency
- Non occlusive
- Smooth feel

COMPOSITION

- Polydimethylsiloxane
- INCI Name: Dimethicone
- CAS Number: 63148-62-9

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, 5 cSt and 10 cSt are commonly used as base fluid in topical formulations because of their spreadability and sensory benefits namely smooth and tack-free feel on the skin. These silicone fluids are used in various skin contact applications including personal lubrication, dermatological products and consumer healthcare products.

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	Results	
			5 cSt	10 cSt
0004	Viscosity at 25°C	mm ² /s	5	10
0002	Refractive index at 25°C		1,3960	1,3989
0044	Specific gravity at 25°C		0.913	0.935
0006	Flash point (open cup)	°C	121	162

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

DESCRIPTION

Dow Corning TI-1050 Fluid, 5 cSt and 10 cSt are clear, colorless, low viscosity polymethydisiloxane fluid. They are suitable ingredients for topical formulations and can be used in combination with other organic or inorganic materials.

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, 5 cSt and 10 cSt may be used alone or blended with other silicone or organic ingredients to provide a base for a variety of topical formulations.

They are compatible with most anhydrous alcohols, many solvents and several organic ingredients commonly used in consumer healthcare products.

REGULATORY INFORMATION

Dow Corning TI-1050 Fluid, 5 cSt and 10 cSt are 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 Silicone Fluids, 5 cSt has an usable life of 30 months from the date of production.

Dow Corning TI-1050 Silicone Fluids, 10 cSt has an usable life of 72 months from the date of production.

**PACKAGING
INFORMATION**

Dow Corning TI-1050 Fluid, 5 cSt and 10 cSt are available in totes.

Samples for *Dow Corning* TI-1050 Fluid, 5 cSt and 10 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.

**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.**

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

Table 1: Compatibility Data

Chemical name	<i>Dow Corning</i> [®] TI-1050 fluid					
	5 cSt			10 cSt		
Silicone level (%)	10	50	90	10	50	90
Capric/caprilic triglyceride	C	C	C	NC	C	C
Ethyl alcohol	C	C	C	C	C	C
Glycerin	NC	NC	NC	NC	NC	NC
Isododecane	C	C	C	C	C	C
Isopropyl myristate	C	C	C	C	C	C
Mineral oil	C	C	C	C	C	C
PEG-400	NC	NC	NC	NC	NC	NC
Propylene glycol	NC	NC	NC	NC	NC	NC
Sorbitan monooleate	NC	NC	NC	NC	NC	NC
Octyldodecanol	C	C	C	NC	NC	C

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