

## *Dow Corning*<sup>®</sup> TI-1050 Fluid, 12500 cSt

### **FEATURES & BENEFITS**

- High viscosity dimethicone fluid
- Non-occlusive
- Water repellent
- Improved spreadability
- Smooth feel on the skin
- Substantive
- Film forming agent

### **COMPOSITION**

- Linear polydimethylsiloxane polymer
- INCI Name: Dimethicone
- CAS Number: 63148-62-9

### **REGULATORY SUPPORT**

Ingredient Information Package (IIP)

- Ingredient Regulatory Information
- Elemental Impurities
- Summary of Health Data

Formulation ingredient for topical consumer healthcare applications

### **APPLICATIONS**

- *Dow Corning*<sup>®</sup> TI-1050 Fluid, 12500 cSt can provide film forming properties, ease of spreading, smooth feel and reduced tackiness in skin contact applications like dermatological formulations and consumer healthcare applications.

### **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 <sup>1</sup>	Property	Unit	Result
0176B	Appearance		clear liquid
0208JF	Volatile content	%	0.17
0050IK	Viscosity at 25°C	mm <sup>2</sup> /s	12500
0002A	Refractive index at 25°C		1.4047
0051	Acid number BPG- Bromophenyl blue	mg KOH/g	<0.02

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

### **DESCRIPTION**

*Dow Corning* TI-1050 Fluid, 12500 cSt is a clear, colorless, high viscosity polydimethylsiloxane fluid used to formulate with other organic and inorganic materials for topical applications.

*Dow Corning* TI-1050 Fluid, 12500 cSt may be blended with other silicones to provide a base for a variety of formulations. This fluid is easily emulsified with standard emulsifier and normal emulsification techniques.

### **SPECIFIC TESTING**

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

### **REGULATORY INFORMATION**

*Dow Corning* TI-1050 Fluid, 12500 cSt is produced at a Dow Corning manufacturing site registered as part of Dow Corning's global quality system according to ISO 9001:2008.

### **HOW TO USE**

*Dow Corning* TI-1050 Fluid, 12500 cSt is insoluble in water and in many organics products.

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

- Ingredient Regulatory Information
- Elemental Impurities
- Summary of Health Data

**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**

When stored at or below 25°C in the original unopened containers, *Dow Corning* TI-1050 Fluid, 12500 cSt has a usable life of 60 months from the date of production.

### **PACKAGING INFORMATION**

*Dow Corning* TI-1050 Fluid, 12500 cSt is available in pails and drums.

Samples are available in bottles.

### **LIMITATIONS**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. 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](http://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.**

*We help you invent the future.™*

**[dowcorning.com](http://dowcorning.com)**

**Table 1: Compatibility Data**

Type of Materials	Dow Corning® TI-1050 fluid 12500 cSt		
	10	50	90
<b>Weight percent of TI-1050</b>			
<b>Alcohols and polyols</b>			
Ethanol	NC	NC	NC
Ethoxydiglycol	NC	NC	NC
Glycerin	NC	NC	NC
Lauryl alcohol	NC	NC	NC
Octyldodecanol	NC	NC	NC
Oleyl alcohol	NC	NC	NC
Propylene glycol	NC	NC	NC
Squalane	NC	NC	NC
<b>Oils</b>			
Almond oil	NC	NC	NC
Castor oil	NC	NC	NC
Coconut oil	NC	NC	NC
Corn oil	NC	NC	NC
Joboba oil	NC	NC	NC
Lanolin oil	NC	NC	NC
Sunflower oil	NC	NC	NC
Palm oil	NC	NC	NC
Sesam oil	NC	NC	NC
Soybean oil	NC	NC	NC
<b>Esters</b>			
Caprylic/Capric tryglyceride	NC	NC	NC
Coco Caprylate Caprate	NC	NC	NC
C12-C15Aalkyl Benzoate	NC	NC	NC
Diisopropyl Adipate	NC	NC	C
Diisostearyl Fumarate	NC	NC	NC
Diisostearyl Malate	NC	NC	NC
Diethyl Maleate	NC	NC	NC
Ethyl Oleate	NC	NC	NC
Isocetyl Stearate	NC	NC	NC
Isopopyl Laurate	C	C	C
Isostearyl Benzoate	NC	NC	NC
Isopropyl Myristate	C	C	C
Isopropyl Palmipate	NC	C	C
Myristyl Ether Acetate	NC	NC	NC
Myristyl Lactate	NC	NC	NC
Octyl Palmipate	NC	NC	NC
Octyldodecyl Stearoyl stearate	NC	NC	NC
Octyl Stearate	NC	NC	NC
Tridecyl Neopentanoate	C	C	C
Triisocetyl Citrate	C	NC	NC

C=Compatible, NC= Non Compatible

**Compatibility Data (continued)**

Type of Materials	Dow Corning® TI-1050 fluid 12500 cSt		
	10	50	90
<b>Weight percent of TI-1050</b>			
<b>Hydrocarbons</b>			
Mineral Oil	NC	NC	NC
Isododecane	C	C	C
Isopar H	C	C	C
Petrolatum	NC	NC	NC
Polydecene	NC	NC	NC
<b>Sunscreen agent</b>			
Octyldimethyl PABA	NC	NC	NC
Octyl Salicylate	NC	NC	NC
<b>Others</b>			
Glyceryl Trioctanoate	NC	NC	NC
Polyglyceryl-3 Diisostearate	NC	NC	NC
Water	NC	NC	NC
<b>Silicones</b>			
Hexamethyldisiloxane	C	C	C
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Dimethicone (20 cSt)	C	C	C
Dimethicone (100 cSt)	C	C	C
Dimethicone (350 cSt)	C	C	C
Dimethicone (1000 cSt)	C	C	C
Dimehiconol and Dimethicone	C	C	C
Dimethiconol and Hexamethyldisiloxane	C	C	C
Cyclopentasiloxane	C	C	C
Stearoxytrimethyl silane and Stearyl Alcohol	C	C	C
<b>Glyceryl esters</b>			
Apricot Kernel Oil PEG-6 Esters	NC	NC	NC
<b>Alkoxylated Alcohols</b>			
PEG-15 Stearyl Ether	NC	NC	NC
PEG-8	NC	NC	NC
<b>Ethers</b>			
Caprylyl Ether	C	C	C

C=Compatible, NC= Non Compatible