

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

¹CTM: 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 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.**

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dowcorning.com

Table 1: Compatibility Data

| Type of Materials | Dow Corning® TI-1050 fluid 12500 cSt | | |
|----------------------------------|---|----|----|
| | 10 | 50 | 90 |
| Weight percent of TI-1050 | | | |
| Alcohols and polyols | | | |
| 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 |
| Oils | | | |
| 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 |
| Esters | | | |
| 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 |
| Isoostearyl 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 |
| Weight percent of TI-1050 | | | |
| Hydrocarbons | | | |
| Mineral Oil | NC | NC | NC |
| Isododecane | C | C | C |
| Isopar H | C | C | C |
| Petrolatum | NC | NC | NC |
| Polydecene | NC | NC | NC |
| Sunscreen agent | | | |
| Octyldimethyl PABA | NC | NC | NC |
| Octyl Salicylate | NC | NC | NC |
| Others | | | |
| Glyceryl Trioctanoate | NC | NC | NC |
| Polyglyceryl-3 Diisostearate | NC | NC | NC |
| Water | NC | NC | NC |
| Silicones | | | |
| Hexamethyldisiloxane | C | C | C |
| Hexamethyldisiloxane | C | C | C |
| 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 |
| Glyceryl esters | | | |
| Apricot Kernel Oil PEG-6 Esters | NC | NC | NC |
| Alkoxyated Alcohols | | | |
| PEG-15 Stearyl Ether | NC | NC | NC |
| PEG-8 | NC | NC | NC |
| Ethers | | | |
| Caprylyl Ether | C | C | C |

C=Compatible, NC= Non Compatible