

# MED10-4161

SILICONE DISPERSION

## DESCRIPTION

- One-part, amino-functional silicone dispersed in xylene
- Cures at room temperature upon exposure to atmospheric moisture

## APPLICATION

- Ideal for use as a lubricious coating with high adhesion to metals and other substrates
- Low viscosity makes dispersions ideal for use as sprayable coatings
- Provides excellent lubricity for cutting edges, needle canulla, and other applications requiring friction reduction

NuSil Technology's MED10-4161 shall not be considered for use in human implantation for a period of greater than 29 days.

## PROPERTIES

### TYPICAL PROPERTIES

### AVERAGE RESULT

### STANDARD

### NT-TM

#### Uncured:

|                              |                    |                  |     |
|------------------------------|--------------------|------------------|-----|
| Appearance                   | Clear to amber     | ASTM D2090       | 002 |
| Non-Volatile Content         | 33%                | ASTM D2288       | 004 |
| Specific Gravity, Pycnometer | 0.86               | ASTM D891, D1475 | 022 |
| Viscosity                    | 150 cSt (129 mPas) | ASTM D445, D446  | 025 |

#### Cured: 5 days minimum at 25°C (77°F), 50% relative humidity

|                                       |      |                         |     |
|---------------------------------------|------|-------------------------|-----|
| Durometer, Type 00                    | 25   | ASTM D2240              | 006 |
| Tissue Culture (Cytotoxicity Testing) | Pass | USP <87><br>ISO 10993-5 | 061 |

The above properties are tested on a lot-to-lot basis. Do not use as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.



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# INSTRUCTIONS FOR USE

## Mixing

Thoroughly stir material to ensure homogeneity. Exercise care to prevent solvent loss during deairing. Accomplish additional dilution for thin film applications by adding appropriate solvent. Mixer design/size/type, blade/propeller type, shear/RPM levels, and heat generated during mixing, are important parameters and should be addressed in order to have an adequately mixed dispersion.

Warning: Consult the MSDS for MED10-4161 prior to use, as its solvent carrier is hazardous.

## Coating & Use

Dispersions are more commonly used in dipping processes, but can also be sprayed. Make sure to apply under a fume hood or in a well ventilated environment. Care should be taken before placing coated parts in oven due to the presence of solvent. Reference cure schedule for devolatilization times. For further information, please see NuSil's [A Guide to Silicone Dispersions – Strategies for Processing and Troubleshooting](#).

Note: Some bonding applications may require the use of a primer. NuSil Technology's MED-160 is recommended. For more information on primer selection, visit [www.nusil.com](http://www.nusil.com) and review [Choosing a Silicone Primer/Adhesive System](#).

## Storage

Most dispersions are stored prior to application. It is important to note that NuSil recommends keeping the dispersion in its original container when possible, tightly sealed and stored below 40° C. Care should be taken to prevent solvent evaporation and contamination during long or short term storage.

### Packaging

2 Ounce (57 g)  
1 Pint (380 g)  
1 Gallon (3.12 kg)  
5 Gallon (18 kg)

### Warranty

12 Months

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## FDA MASTER FILE

A Master File for MED10-4161 has been filed with the U.S. Food and Drug Administration. Customers interested in authorization to reference the Master File must [contact](#) NuSil Technology.

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## REACH COMPLIANCE

MED10-4161 is compliant with the Registration, Evaluation, and Authorization of Chemicals (REACH) regulation (European Union 1907/2006). MED10-4161 does not contain any of the chemicals identified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA), which oversees REACH compliance.

Please [contact](#) NuSil Technology's Regulatory Compliance department with any questions or for further assistance.



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## SPECIFICATIONS

Do not use the properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

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## WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims all other expressed or implied warranties, including, but not limited to, warranties of merchantability and fitness for use. The exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil Technology expressly disclaims any liability for incidental or consequential damages.

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## WARNINGS ABOUT PRODUCT SAFETY

NuSil Technology believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. The user is responsible to determine the material's suitability and safety of use. NuSil Technology cannot know each application's specific requirements and hereby notifies the user that it has not tested or determined this material's suitability or safety for use in any application. The user is responsible to adequately test and determine the safety and suitability for their application and NuSil Technology makes no warranty concerning fitness for any use or purpose. NuSil Technology has completed no testing to establish safety of use in any medical application.

NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please [contact](#) NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, review the latest Material Safety Data Sheet and [contact](#) NuSil Technology with any questions about product safety information.

Do not use any chemical in a food, drug, cosmetic, or medical application or process until having determined the safety and legality of the use. The user is responsible to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

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