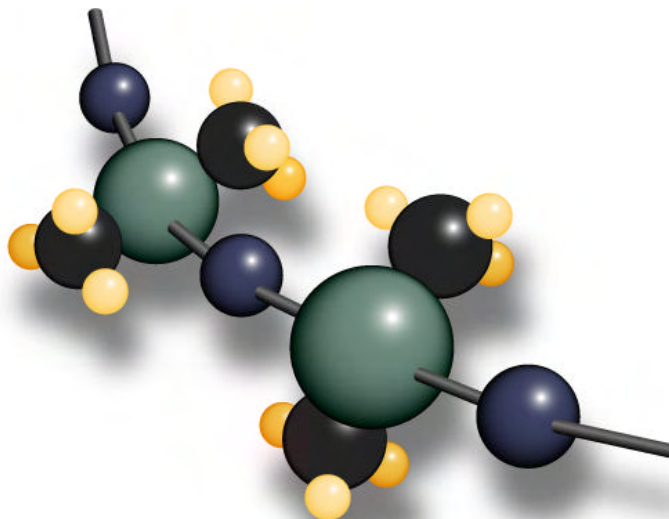


# Polymer Systems Technology Limited

UK & Ireland Distributor



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# MED-6015

Optically Clear Potting and Encapsulating Silicone Elastomer

## Product Profile

### Description

- Two-part, optically clear, solvent free, low viscosity silicone
- 10:1 Mix Ratio (Part A: B)

### Applications

- For molding of clear silicone parts, potting, and coating applications
- For applications requiring an operating temperature range of -65 to 240°C (-85 to 465°F)

**NuSil Technology's MED-6015 is a restricted product. It shall not be considered for use in human implantation for a period of greater than 29 days.**

| Typical Properties                       | Result      | Metric Conv. | ASTM         | NT-TM |
|--|-------------|--------------|--------------|-------|
| <b>Uncured:</b>                          |             |              |              |       |
| Appearance                               | Transparent | -            | D2090        | 002   |
| Viscosity, Part A                        | 6,000 cP    | 6,000 mPas   | D1084, D2196 | 001   |
| Viscosity, Part B                        | 90 cP       | 90 mPas      | D1084, D2196 | 001   |
| Refractive Index, Part A                 | 1.41        | -            | D1747, D1218 | 018   |
| Work Time                                | 4 hours     | -            | -            | 008   |
| <b>Cured: 15 minutes @ 150°C (302°F)</b> |             |              |              |       |
| Specific Gravity                         | 1.03        | -            | D792         | 003   |
| Durometer, Type A                        | 50          | -            | D2240        | 006   |
| Tensile Strength                         | 1,300 psi   | 9.0 MPa      | D412         | 007   |
| Elongation                               | 100%        | -            | D412         | 007   |

### Instructions for Use

#### Mixing

Mix Part A and Part B in a 10:1 ratio by weight, taking care to minimize air entrapment during mixing.

#### Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply vacuum, up to 28 inches of Hg, to a container rated for use and at least four times the volume of material being de-aired. Hold vacuum until presence of air is no longer evident.

#### Substrate Considerations

MED-6015 will cure in contact with most materials common to biomedical assemblies. Exceptions include sulfur-cured organic rubbers, latex, chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents. Units to be encapsulated or potted should be clean and free of surface contaminants. Containers and dispensers to be used with MED-6015 should also be clean and dry.

**Note:** Some bonding applications may require the use of a primer. MED1-161 silicone primer is recommended.

#### Adjustable Cure Schedule

Product cures at room temperature and a wide range of elevated temperatures and cure times to accommodate different production needs. Contact NuSil Technology for details. Some cure schedules\* include:

65°C (149°F)  
40 minutes

100°C (212°F)  
2 minutes

\* Cure time defined as the time required for a knife coat layer ~0.02" to be removed from a release liner

### Packaging

250ml SxS Kit  
 1 Pint Kit (505 g)  
 1 Gallon Kit (4.04 kg)  
 5 Gallon Kit (20.2 kg)

### Warranty

12 Months

## **FDA Master Access File**

A Master Access File for MED-6015 has been filed with the U.S. Food and Drug Administration. Customers interested in authorization to reference the Master Access File must contact NuSil Technology.

## **Warnings About Product Safety**

NuSil Technology believes the information and the data contained herein are accurate and reliable. However, 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, obtain available product safety information and take the necessary steps to ensure safety of use.

## **Specifications**

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

## **Patent Warning**

NuSil Technology disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology does not warrant the use or sale of the products described herein will not infringe the claims of any United States' or other country's patents covering the product itself, its use in combination with other products or its use in the operation of any process.

## **Warranty Information**

NuSil Technology's warranty period 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 any other expressed or implied warranty, including 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.