

**NuSil Technology**

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An ISO 9001 Certified Company

# R-1600

Non-Corrosive RTV Silicone Adhesive\Sealant

## Product Profile

### Description

- One-part, translucent, non-slumping silicone RTV
- Based on a dimethyl diphenyl silicone copolymer with a broad temperature range

### Applications

- As a sealing, caulking, adhesive or potting material in industrial or electronic applications
- Works well for bonding and sealing applications requiring a non-slumping and one-part material, such as applications to overhead or vertical joints

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
<b>Uncured:</b>				
Appearance	Clear	-	D2090	002
Consistency	Non-Slumping	-	-	-
Cure System	Oxime	-	-	-
Cure Time @ ambient temp. and humidity				
Full cure	7 days	-	-	075
Tack Free Time				
@ 25°C (77°F) and 50% R.H.	30 min	-	C-679-87	005
<b>Cured: 7 days, 50% R.H.</b>				
Specific Gravity	1.10	-	D792	003
Durometer, Type A	45	-	D2240	006
Tensile Strength	650 psi	4.5 Mpa	D412, D882	007
Elongation	300%	-	D412, D882	007
Tear Strength	60 ppi	11.4 kN/m	D624	009
Lap Shear Strength (primed w/ SP-120)	205 psi	1.4 Mpa	D1002	010
Young's Modulus	475 psi	3.3 Mpa	-	-
Operating Temperature Range	-178 to 500°F	-115 to 260°C	-	-

### Instructions for Use

NuSil Technology supplies R-1600 in cartridges. Apply with the use of an appropriate caulking gun.

### Substrate Considerations

Although generally considered to be non-corrosive to most substrates, the oxime cure system may cause discoloration in the presence of copper or copper alloys.

### Typical Cure Schedule

At 25°C (77°F) and 50% R.H. NuSil Technology R-1600 has a tack free time of 30 minutes, with full cure achieved in seven (7) days. Thick sections may require extended cure times and adequate time should be allocated for complete cure.

### Packaging

3 oz Tube (89 mL)  
6 oz Tube (177 mL)

### Warranty

6 Months

## **Warnings About Product Safety**

NuSil Technology believes that the information and 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 Sheets 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**

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## **Warranty Information**

NuSil Technology's warranty period is 6 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.