

# R-1130

## Non-corrosive RTV silicone adhesive/sealant

### DESCRIPTION

- One-part, translucent, non-slumping RTV silicone adhesive
- Based on a dimethyl silicone polymer
- Non-corrosive cure
- Rapid curing
- Excellent electrical insulation properties

### APPLICATION

- As a sealing and caulking, adhesive or potting material for environmental protection of electronic assemblies and components where a non-corrosive cure is essential
- As a coating for semi-conductors and integrated circuits
- As an adhesive/sealant for electrical wires, terminals, mounting resistors and connectors.
- Ideal for overhead or side wall applications due to its non-slumping characteristics

### PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
<b>Uncured:</b>				
Appearance	Translucent	-	ASTM D2090	002
Extrusion Rate Performed using a cylindrical 1" x 1/8" nozzle and 20 psi air pressure)	95 g/min	-	ASTM C603	033
Flow after 1 minute	0.95 inches	2.4 cm	ASTM D2202	019
Tack Free Time	25 min	-	ASTM C679	005
<b>Cured: 7 days at ambient temperature and humidity</b>				
Specific Gravity	1.10	-	ASTM D792	003
Durometer, Type A	35	-	ASTM D2240	006
Tensile Strength	850 psi	5.9 MPa	ASTM D412, D882	007
Lap Shear Strength (primed w/ SP-120)	485 psi	3.3 MPa	ASTM D1002	010
Elongation	325%	-	ASTM D412, D882	007
Tear Strength	40 ppi	7.1 kN/m	ASTM D624	009

The test data shown for this material is the average value for typical properties. All of these properties may not be tested on a lot to lot basis and cannot be used to draft specifications. Please [contact](#) NuSil® for assistance and recommendations in establishing limits for product specifications.

## 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.

Note: Some bonding applications may require the use of a primer. NuSil SP-120 silicone primer is recommended.

## SPECIFICATIONS

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

## WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC is 6 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil provides a specific written warranty of fitness for a particular use, NuSil's sole warranty is that the product will meet NuSil's then current specification. NuSil 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'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 expressly disclaims any liability for incidental or consequential damages.

## WARNINGS ABOUT PRODUCT SAFETY

NuSil 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 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

### Packaging

6 Ounce Tube (177 mL)

### Warranty

6 Months

determine the safety and suitability for their application and NuSil makes no warranty concerning fitness for any use or purpose. NuSil has completed no testing to establish safety of use in any medical application.

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