

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
- Shelf-life stability
- 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
Uncured:				
Appearance	Translucent	-	ASTM D2090	002
Non-Volatile Content	100%	-	-	-
Flow	0.5 inches	1.3 cm	ASTM D2202	019
Tack Free Time	25 min	-	ASTM C679	005
Cured: 7 days at ambient temperature and humidity				
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
Operating Temperature Range	-85 to 465°F	-65 to 240°C	-	-

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 Technology SP-120 silicone primer is recommended.

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.

WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") 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 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.

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

Packaging

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

Warranty

6 Months

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.

PATENT / INTELLECTUAL PROPERTY WARNING

NuSil Technology disclaims any expressed or implied warranty against the infringement of any domestic or international patent/intellectual property right. NuSil Technology does not warrant the use or sale of the products described herein will not infringe the claims of any domestic or international patent/intellectual property right covering the product itself, its use in combination with other products, or its use in the operation of any process.