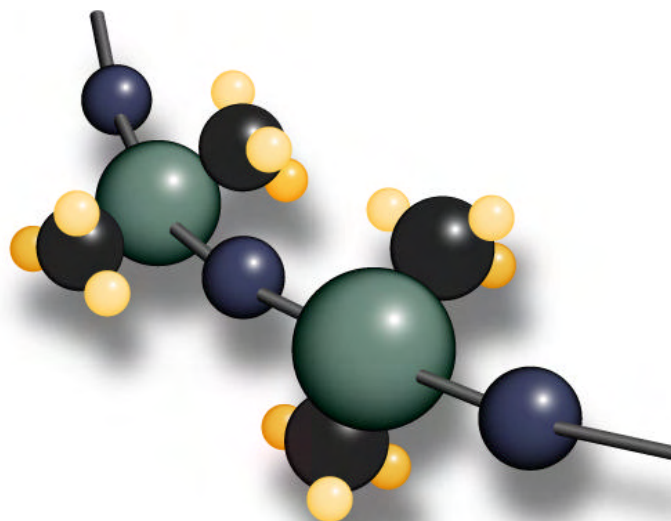


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CV-1142-1

Non-Corrosive Controlled Volatility RTV Silicone Adhesive/Sealant

Product Profile

Description

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

Applications

- For applications requiring low outgassing and minimal volatile condensables under extreme operating conditions
- As a sealing, caulking, adhesive or potting material in electrical and space applications requiring minimal outgassing to avoid condensation in sensitive devices
- For bonding and sealing in applications such as overhead or vertical joints that require a non-slumping and one-part material

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	White	-	-	-
Extrusion Rate*	-	35 gpm	-	-
Consistency	Non-slump	-	-	-
Cure Time, 50% R.H. @ 25°C				
Tack Free	30 min	-	-	-
Cure System	Oxime	-	-	-
Full Cure**	7 days	-	-	-
Cured: 7 days @ ambient temp. and humidity				
Appearance	White, elastomer	-	D2090	002
Specific Gravity	1.12	-	D792	003
Durometer, Type A	35	-	D412, D882	007
Tensile Strength	700 psi	4.5 Mpa	D412, D882	007
Elongation	300%	-	D412, D882	007
Dielectric Strength	500 volts/mil	-	-	-
Volume Resistivity	1x10 ¹⁵	-	D257	040
Collected Volatile Condensable Material (CVCM)	0.03%	-	E 595-77	072
Total Mass Loss (TML)	0.43%	-	E 595-77	072
Service Temperature Range	-178°F to 500°F	-115°C to 260°C	-	-

*Performed using a SEMCO® 440 nozzle with an 1/8" orifice and 60 +/-5 psi air pressure

** Thick sections may require extended cure times. Allocate adequate time for complete cure

Instructions for Use

Apply CV-1142-1, supplied in cartridges, 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.

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

Packaging

3 Ounce Tube (89 mL)
 6 Ounce 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 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.

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