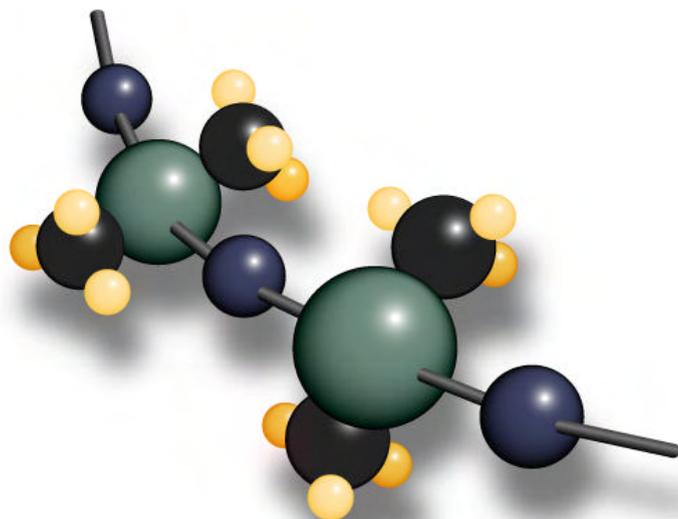


# Polymer Systems Technology Limited

UK & Ireland Distributor



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# CCF1-2566

Controlled Volatility RTV Silicone

## Product Profile



Creative Partners in a Material World

NuSil Technology

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An ISO 9001 Certified Company

### Description

- Two-part, red RTV silicone
- Based on a diphenyl dimethyl silicone copolymer with a broad operating temperature range
- 100: 0.5 Mix Ratio (Base: Curing Agent)

### Applications

- For applications requiring low outgassing and minimal volatile condensables under extreme operating conditions to avoid condensation in sensitive devices
- Use a sealing, caulking, adhesive or potting material in electrical and space applications where high vacuum environments are encountered

### Typical Properties

	Result	Metric Conv.	ASTM	NT-TM
<b>Uncured:</b>				
Color	Red	-	-	-
Viscosity	40,000 cP	40,000 mPas	D-1084, D-2196	001
Work Time	1.7 hours	-	-	008
<b>Cure Time, 50% R.H. @ 25°C</b>				
Set Up	24 hours	-	-	-
Cure System	Tin Condensation	-	-	-
Full Cure	7 days	-	-	-
<b>Cured: 7 days @ 25°C (77°F), 50% R.H.</b>				
Appearance	Red, elastomer	-	D-2090	002
Specific Gravity @ 25°C (77°F)	1.45	-	D-792	003
Durometer, Type A	50	-	D-2240	006
Tensile Strength	800 psi	5.5 Mpa	D-412, D-882	007
Elongation	160%	-	D-412, D-882	007
Collected Volatile Condensable Material (CVCM)	0.03%	-	E 595-77	072
Total Mass Loss (TML)	0.68%	-	E 595-77	072
Operating Temperature Range	-178°F to 500°F	-115°C to 260°C	-	-

### Instructions for Use

#### Mixing

Thoroughly mix 0.5% by weight of curing agent to base. Use of a micro-syringe is recommended for dispensing small amounts of the catalyst

**Caution:** The curing agent may cause skin irritation. In case of eye contact, irrigate with water immediately and seek medical attention

#### Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all safety precautions. Slowly apply full vacuum to a container rated for use and at least four times the volume of the material being deaerated. Hold vacuum until bulk deaeration is complete.

**Note:** Some bonding application may require the use of a primer. NuSil Technology MED-160 silicone primer is recommended.

### Packaging

50 Gram Kit (50 g)  
100 Gram Kit (102.5 g)  
250 Gram Kit (256 g)  
500 Gram Kit (512.5 g)

### Warranty

6 Months

## **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**

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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.