



CV1-2566

Controlled volatility RTV silicone

DESCRIPTION

- Two-part, flowable, red RTV silicone
- 100:0.5 Mix Ratio (Base: Curing Agent)

Meets or exceeds the ASTM E 595 low outgas specifications outlined in NASA SP-R-0022A and European Space Agency PSS-014-702, with a TML of \leq 1% and CVCM of \leq 0.1%

APPLICATION

- For applications requiring low outgassing and minimal volatile condensables under extreme operating conditions
- Use a sealing, caulking, adhesive or potting material in electronic and space applications where high vacuum environments are encountered
- For applications requiring a broader operating temperature range

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Red	ASTM D2090	002
Viscosity, Part A	45,000 cP (45,000 mPas)	ASTM D1084, D2196	001
Work Time	3 hours	-	008
Cured: 7 days minimum at ambient temperature and	numidity		
Specific Gravity	1.45	ASTM D792	003
Durometer, Type A	50	ASTM D2240	006
Tensile Strength	900 psi (6.2 MPa)	ASTM D412	007
Elongation	160%	ASTM D412	007
Lap Shear Strength (primed w/ SP-120)	650 psi (4.5 MPa)	ASTM D1002	010
Collected Volatile Condensable Material (CVCM)	0.03%	ASTM E595	072
Total Mass Loss (TML)	0.62%	ASTM E595	072

Properties tested on a lot-to-lot basis. Do not use the properties shown in this technical profile as a basis for preparing specifications Please <u>contact</u> NuSil Technology for assistance and recommendations in establishing particular specifications.



INSTRUCTIONS FOR USE

Mixing

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

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 applicable 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 applications may require the use of a primer. NuSil Technology SP-120 silicone primer is recommended.

OPERATING TEMPERATURE RESISTANCE

The operating temperature range of a silicone in any application is dependent on many variables, including but not limited to: temperature, time of exposure, type of atmosphere, exposure of the material's surface to the atmosphere, and mechanical stress. In addition, a material's physical properties will vary at both the high and low end of the operating temperature range. This type of silicone typically remains flexible at extremely low temperatures and has been known to perform at -120°C (-248°F) as well as resist breakdown at elevated temperatures up to 300°C (572°F). The user is responsible to verify performance of a material in a specific application.

ROHS AND REACH COMPLIANCE

Please <u>contact</u> NuSil Technology's Regulatory Compliance department with any questions or for further assistance

SPECIFICATIONS

Do not use the properties shown in this technical profile as a basis for preparing specifications. Please <u>contact</u> NuSil Technology for assistance and recommendations in establishing particular specifications.

Warranty 6 Months

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.

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NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please <u>contact</u> 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 <u>contact</u> NuSil Technology with any questions about product safety information.

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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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Silicone Sales & Services UK - Ireland - Benelux

© 2020 - Polymer Systems Technology Limited™ Unit 2. Network 4. Cressex Business Park, Lincoln Road, High Wycombe, Bucks. HP12 3RF

tel: +44 (0) 1494 446610

web: https://www.silicone-polymers.com

email: sales@silicone-polymers.co.uk

