CV-2391

Controlled volatility RTV silicone foam

DESCRIPTION

- Yields a low to medium density silicone rubber foam when rapidly catalyzed
- Low viscosity
- 1:10 Mix Ratio (Part A: Part B)

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 ≤1% and CVCM of ≤0.1%

APPLICATION

- In shock and vibration dampening situations requiring a lightweight, flexible foam
- For intricate back-filling due to a low viscosity
- For applications requiring low outgassing and minimal volatile condensable materials

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance, Part A	White	ASTM D2090	002
Appearance, Part B	Translucent	ASTM D2090	002
Viscosity, Part B	3,000 cP (3,000 mPas)	ASTM D1084, D2196	001
Application Life	6 minutes	-	027
Cured: 60 minutes at ambient temperature and humidity			
Foam Density	14 lbs/ft^3 (0.224 g/mL)	ASTM D792, D3574	026
Collected Volatile Condensable Material (CVCM)	<0.1%	ASTM E595	072
Total Mass Loss (TML)	<1%	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 contact NuSil Technology for assistance and recommendations in establishing particular specifications.

INSTRUCTIONS FOR USE

Mixing

Thoroughly mix Part A and Part B, in a 1:10 mix ratio by weight prior to use. Mixing may be accomplished by hand, however best results are achieved using a high speed agitator or a special two-component mixing device to eliminate air entrapment. Mix for 30 seconds. Foaming begins almost immediately and will continue for approximately 3 minutes. Handle the material within 10 minutes after pouring, however allow 24 hours for optimum physical properties. Confining the foam results in a higher specific gravity.

Use a suitable release agent (an aqueous solution of soap and detergent or a commercial mold release) in mold making applications.

Note: Some bonding applications may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

Work Time

Extend Work Time by storing at a low temperature. Storing at -18°C (0°F) extends Work Time to approximately 15 minutes.

Inhibition Concerns

Cures in contact with most materials. Exceptions include unreacted residues of some curing agents, butyl and chlorinated rubbers, and some RTV silicones containing organotin and/or amines.

OPERATING TEMPERATURE

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. Silicone typically remains flexible at extremely low temperatures and has been known to perform at -50°C (-58°F) as well as resist breakdown at elevated temperatures up to 250°C (482°F). The user is responsible to verify performance of a material in a specific application.

ROHS AND REACH COMPLIANCE

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

Packaging	Warranty
1 Pint Kit (457 g) 1 Gallon Kit (3.64 kg)	6 Months

SPECIFICATIONS

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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 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

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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.

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