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UK & Ireland Distributor



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NuSil Technology

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An ISO 9001 Certified Company

CV2-2500

Controlled Volatility Silicone Elastomer

Product Profile

Description

- Two-part, optically clear silicone system
- Based on a methyl silicone polymer
- 10:1 Mix Ratio (Part A: Part B)

Applications

- For electronic and space applications requiring low outgassing and minimal volatile condensables to avoid condensation in sensitive devices
- As an embedding or potting compound for environmental protection of electronic assemblies and components
- Provides protection from humidity, radiation, thermal stress and mechanical stress
- As an adhesive in low-strength applications such as solar cell arrays where clarity and low volatility are important

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Visually Clear to Translucent	-	D2090	002
Work Time	1 hour	-	-	008
Viscosity	7,600 cP	7,600 mPas	D1084, D2196	001
Cured: 15 min @ 150°C (302°F)				
Specific Gravity	1.02	-	D792	003
Durometer, Type A	50	-	D412	007
Tensile Strength	1,200 psi	8.3 Mpa	D412	007
Elongation	125%	-	D412	007
Dielectric Strength	500 volts/mil	19.7 kV/mm	D149	-
Volume Resistivity	1x10 ¹⁵	-	D257	040
Collected Volatile Condensable Material (CVCM)	<0.01%	-	E595	072
Total Mass Loss (TML)	0.09%	-	E595	072
Operating Temperature Range	-85°F to 450°F	-65°C to 232°C	-	-

Instructions for Use

Mixing

Thoroughly mix base and curing agent in a 10:1 mix ratio by weight prior to use.

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.

Substrate Considerations

Cures in contact with most materials common to electronic assemblies. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

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

Adjustable Cure Schedule

Product cures at a wide range of elevated temperatures and cure times to accommodate different production needs. Contact NuSil Technology for details.

Packaging

50 Gram Kit
100 Gram Kit
500 Gram Kit

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 Sheets 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.