

NuSil CV10-2500

Silicone

NuSil Technology

Message:

Controlled Volatility (CV) Silicone Materials

Silicone's ability to remain elastic at low temperatures and resistant to breakdown at high temperatures offer excellent utility in extraterrestrial environments where materials are repeatedly exposed to extreme temperatures. NuSil's Controlled Volatility (CV) and Ultra Low Outgassing TM (SCV) silicone products are used by leading space programs to provide the much-needed resilient protection they require against contamination and material degradation.

Benefits of Silicone Materials for Space

Broad Operating Temperature

Compensation for CTE Mismatch

Protection Against Atomic Oxygen

Optically Clear Formulations

Flight Legacy

Comments: High Durometer, Optically Clear

General Information

Features	High Hardness Low to No Outgassing
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Uses	Adhesives Aerospace Applications Electrical/Electronic Applications Sealants
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Agency Ratings	ASTM E 595 NASA SP-R-0022A
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Thermoset

Nominal Value	Unit
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Thermoset Components

Part A	Mix Ratio by Weight: 1.0
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Part B	Mix Ratio by Weight: 1.0
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Tack Free Time	5.0	hr
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Cure System	Platinum
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Uncured Properties

Nominal Value	Unit
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Color	Clear/Transparent
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Density	1.02	g/cm ³
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Viscosity	7.5	Pa · s
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Curing Time (150°C)	0.25	hr
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Pot Life	180	min
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Cured Properties

Nominal Value	Unit
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Shore Hardness (Shore A)	50
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Tensile Strength	6.89	MPa
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Tensile Elongation at Break

130

%

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