

## SnapSil™ TN8000

Fast Cure, Non-corrosive Silicone Adhesive Sealant

### Product Description

SnapSil TN8000 silicone adhesive sealant is a one-component, fast cure, non-corrosive silicone adhesive sealant that cures on exposure to atmospheric moisture to form an elastic silicone rubber. SnapSil TN8000 silicone adhesive sealant has a thixotropic paste consistency and excellent corrosion-free adhesion to metals, including copper, plastics, glass without the use of primers.

### Key Features and Typical Benefits

- Fast room temperature cure; neutral alkoxy cure type
- Primer less adhesion to many substrates
- Excellent adhesion after extended aging, with excellent dielectric properties
- Flame retardant: UL94HB certified (File No. E56745)
- Wide operating temperature range from -50 to +200 °C

### Typical Physical Properties

(JIS K 6249)

UNCURED PROPERTIES (23°C, 50%RH)		SnapSil TN8000-W, -B, -G sealant
Appearance		Non-flowable, white, black, gray
Tack Free Time	Min	20
CURED PROPERTIES (7days at 23 °C, 50%RH)		
Appearance		Elastic rubber, white, black, gray
Density	g/cm <sup>3</sup>	1.41
Hardness (Type A)		33
Tensile Strength	MPa	2.2
Elongation	%	620

Adhesive Strength <sup>(1)</sup>	MPa	1.8
Thermal Conductivity <sup>(2)</sup>	W/(m·K)	0.38
Linear Expansion <sup>(3)</sup>	1/K	$2 \times 10^{-4}$
Volume Resistivity	MΩ·m	$7 \times 10^6$
Dielectric Strength	kV/mm	21
Dielectric Constant (60Hz)		3.9
Dissipation Factor (60Hz)		0.04

<sup>(1)</sup> Aluminum lap shear. <sup>(2)</sup>, <sup>(3)</sup> In-house test method.

Typical properties are average data and are not to be used as or to develop specifications.

### Potential Applications

- Insulating adhesive sealing and fixing for electrical and electronic parts
- Waterproof sealant for electrical, electronic and communication equipment
- General adhesive for metals, glass, plastics, etc.

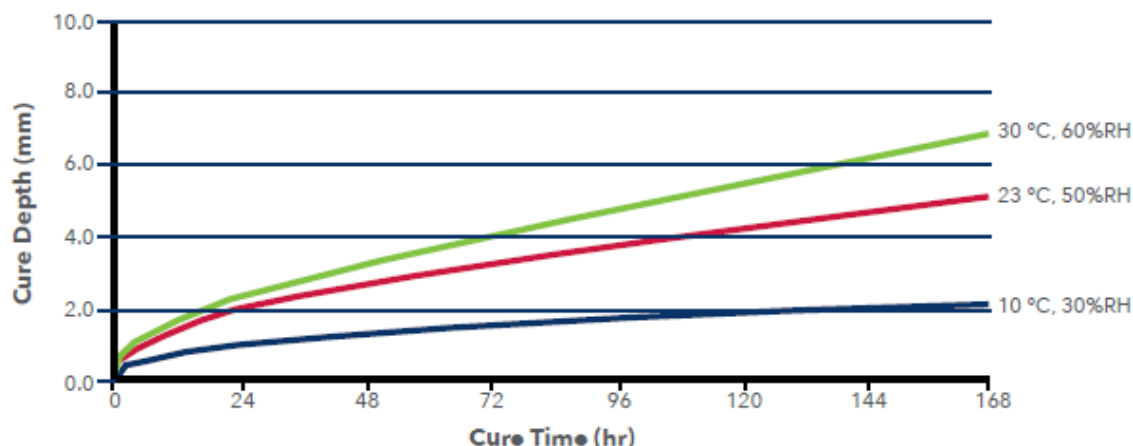
### Adhesion Performance

SnapSil TN8000 silicone adhesive sealant has excellent bonding properties and has demonstrated adherence to any materials without primers.

	SnapSil TN8000-W, -B, -G sealant
Aluminum	O
Stainless steel	O
Copper	O
Mild steel	O
Zinc plate	O
Nickel plate	O
Acrylic resin	O
Polyester	O
Epoxy resin	O
Polycarbonate	O
ABS	O
PBT (Polybutylene terephtharate)	O
PPS (Polyphenylene sulfide)	O
PET (Polyphenylene terephtharate)	O
PPE (Polyphenylene ether)	O
Modified PPO	O
Phenolic resin	O
Nylon-6	O
Nylon-66	O
PVC (Polyvinyl chloride)	O
Glass	O
PE (Polyethylene)	X
PP (Polypropylene)	X

O: Adheres completely (Cohesive failure), x: Does not adhere  
 Test data. Actual results may vary.

## Cure Performance



Note: Test data. Actual results may vary.

### General Considerations for Use

- Substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, xylene methyl ethyl ketone (MEK) etc.
- Wear eye protection and protective gloves as required while handling.
- Adequate ventilation must be maintained in the work place at all times.
- While the typical operating temperature for silicone materials ranges from -45°C to 200°C, the long-term maintenance of its initial properties is dependent upon design related stress considerations, substrate materials, frequency of thermal cycles, and other factors.

### Current Packaging

- 333ml cartridge in case of 10
- 25kg pail

### Patent Status

本書のいかなる内容も、関連特許が存在しないことを暗示したものではありません。またいかなる特許についても、その権利者による許可なしに、その特許が対象とする発明を実施するための許可、誘因または推奨を構成することはできません。

### Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

### Contact Information

Email

[commercial.services@momentive.com](mailto:commercial.services@momentive.com)

### Telephone

<b>Americas</b>	<b>Latin America</b>	<b>EMEA- Europe, Middle East, Africa &amp; India</b>	<b>ASIA PACIFIC</b>
+1 800 295 2392	<b>Brazil</b>	<b>Europe</b>	<b>China</b>
Toll free*	+55 11 4534 9650	+390510924300	800 820 0202
+704 805 6946	Direct Number	Direct number	Toll free
Direct Number			+86 21 3860 4892
			Direct number
*All American countries	<b>Mexico</b>	<b>India, Middle East &amp; Africa</b>	<b>Japan</b>
	+52 55 2169 7670	+ 91 44 71212207	+81 3 5544 3111
	Direct Number	Direct number*	Direct number
		<b>*All Middle Eastern countries, Africa, India,</b>	<b>Korea</b>
			+82 2 6201 4600

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

**DISCLAIMER:**

**THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.** Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

The use of the “™” symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.