

NOVAGARD

500 Series Electronic Silicone

Novagard 500 Series Electronic Silicones are neutral cure (alkoxy) products suitable for electronics sealing, bonding, and encapsulating applications requiring non-corrosive product. They are available in multiple viscosity profiles depending on the preferred application.



- Electronics Grade / Non-corrosive
- Sprayable/flowable or Paste
- Inside-out cure provides longer working times
- High speed two-part alkoxy formulations are available
- Ready to use. Room temperature moisture cure results in a tough, resilient, silicone rubber
- Excellent unprimed adhesion to a variety of industrial substrates
- Low odor and solvent free with no isocyanates

Novagard 500 Series Electronic Silicones with low/medium viscosity are conformal coatings. They are preferable to paste-consistency products where flow coating is the preferred application method and when flow into small crevices and hard to reach places is desired.

High viscosity sealants can be applied on vertical surfaces without sagging. They also have superior gap-filling properties designed to offer superior quality and long-term durability, particularly for their performance upon exposure to hostile environmental conditions.

Two-part alkoxy sealants provide for rapid curing to speed the assembly process.

If we don't have the electronics grade silicone to meet your specifications, we'll use our three decades of silicone experience to custom formulate one for you.

Applications

- General industrial sealing and bonding applications requiring a non-corrosive product
- Pin/solder joint coverage
- Thin section encapsulation

Packaging Information

Novagard 500 Series Electronic Silicones are available in cartridges, sausage packs, pails, and drums. Consult your distributor or salesperson for details.

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Disposal

Consult and obey all applicable local, state, and federal regulations. For additional information, consult product Safety Data Sheet.

Precautions

Certain materials, chemicals, curing agents, and plasticizers may inhibit the cure. The most notable are organotin catalysts, amino compounds, polysulfide, and other sulfur-containing materials. Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine, or peroxides. Not recommended for surfaces that are to be painted.

Do not estimate weights and measures. Two part silicones are mix ratio sensitive and require accurate metering (1 part A : 1 part B v/v).

Additional Information

Novagard believes that the information provided is a true and accurate description of the characteristics of the aforementioned product; however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy, and safety.

For Professional Use

1-Part Silicone Sealant Properties*

Novagard Part No.	Skin-Over Time (min)	Through Cure (hrs)	Viscosity (cPs)	Extrusion Rate (g/min)	Durometer (Shore A)	Tensile (psi)	Elongation (%)	Specific Gravity	Appearance
Sprayable / Flowable									
500-225	10-30	48 maximum	2,000-3,000	-	13 +/- 5	45-65	140 - 160	1.00 - 1.05	Translucent Liquid
500-257	20-45	72	35,000-40,000	-	10 +/- 5	50	450	0.95 - 1.01	Translucent Liquid
Paste									
500-09x	5-15	72 maximum	-	40	35 +/- 5	200- 300	325-425	1.30- 1.40	White or Black Paste
500-100	5-15	72 maximum	-	40	25 +/- 5	150 - 200	400-450	1.20- 1.30	White Paste
500-150	10-30	72 maximum	-	30	18 +/- 5	175- 225	950-1050	1.00- 1.05	Translucent Paste

*The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information.

2-Part Silicone Sealant Properties*

Properties	500 - 607
Before Cure	
Description	Potting and Encapsulant
Appearance (After Mixing)	Clear
Mix Ratio - Base: Cure (By Volume)	1:1
Specific Gravity (Mixed, 25°C) Part A Part B	0.95 - 1.05 0.95 - 1.05
Viscosity (Mixed, 25°C) Part A Part B	100 - 200 cPs 1,500 - 2,500 cPs
Gel Time (Mixed, 25°C)	5 - 6 hours
After Cure (7 Days @ 25°C/50% RH)	
Service Temperature	- 40°C to 205°C (- 40°F to 400°F)
Tensile Strength (ASTM D412)	
Elongation (ASTM D412)	
Shore A (ASTM D2240)	13 - 18
Tear Resistance (ASTM D624)	1.5 - 2.5 pli
Coefficient of Linear Thermal Expansion (ASTM E831)	6.67 x 10 ⁻⁴ /°C

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ISO 9001:2015 QMS (with Design) | IATF 16949:2016 QMS (with Design)
Certified Women's Business Enterprise | Certified Woman Owned Small Business



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