

# NOVAGARD

*Solutions™*

Engineered Products... Innovative Thinking



General Industrial

A photograph of a car body on an assembly line. The car is silver and is being worked on by several red robotic arms. The background is dark with some lights, suggesting a factory setting. The car is positioned on a green conveyor belt or lift system.

*Dear Customer/Future Customer,*

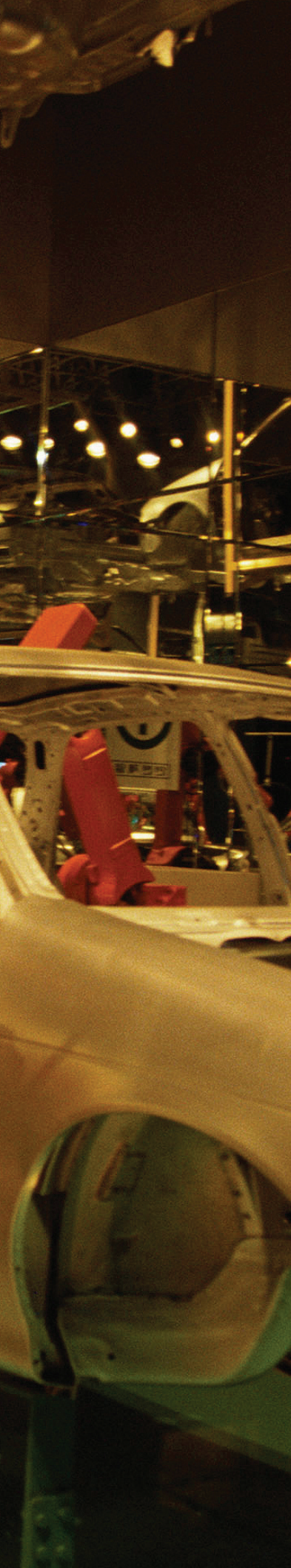
*I am pleased to introduce you to our General Industrial catalog featuring our current product offerings. Novagard Solutions™ has a 30 year history of producing custom engineered adhesive and sealant solutions in addition to our standard product offerings. We offer a broad range of RTV silicones, silicone based greases and compounds, advanced polymer adhesives and sealants, PVC foams.*

*We pride ourselves in innovation. Our team of adhesive and sealant professional's are dedicated to meeting and exceeding your challenging requirements. Whether it is a customized or standard solution for your application our team is ready to serve. As an ISO 9001:2000 and ISO/TS 16949:2002 certified company, I give you my personal commitment to delivering quality and consistent products second to none with stringent testing.*

*In addition, we have been issued several patents for our innovations and have many exciting new products being developed. We will continue to add to our product portfolio in the coming years and stand ready to put our innovation to work for you. Novagard Solutions' views you as our business partner now and for the long term. If the solution is not available in our existing product line, we will work with you to create one.*

*Warmest Regards,*

*Michael S. Sylvester  
CEO  
Novagard Solutions*



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## Novagard® General Purpose Sealants – 100 Series

**Description:** Excellent general purpose adhesives and sealants used for most common bonding and sealing applications. These materials release acetic acid during the cure process, which can be corrosive to some metal substrates.

**Special Characteristics:** 100% silicone polymers and fluids, never diluted or cut with solvents and mineral oils. Will not sag or run; may be applied overhead or vertical surfaces.

**Physical Form:** One-part, RTV paste; cures at room temperature on exposure to moisture in air to a tough, rubbery solid.

**Applications:** Glazing                      Sealing                      Bonding glass  
Metals                                  Plastics                      Ceramics

**Temperature Range:** Continuous from -62°F to 400°F (-52°C to 204°C); intermittent to 500°F (260°C).

**Specifications:** Meets or exceeds the performance characteristics of: NSF 51. Food Equipment Materials, Recognized Component. FDA status – when fully cured and washed, Novagard General Purpose Sealants contain those ingredients which conform to FDA requirements as published in the Code of Federal Regulations.

**Available Sizes:**  Minimums may apply, contact customer service for more information.

**Colors:** 100-101 White • 100-102 Black • 100-103 Aluminum • 100-150 Translucent



## Novagard® Flowable Sealants – 200 Series

**Description:** Ideal for general industrial sealing and bonding applications requiring a flowable product, but retains enough thixotropy to prevent leakage during the cure cycle. Standard products offer a wide range of viscosities from 500 cps to 120,000 cps.

**Special Characteristics:** Self-leveling, flowable neutral cure sealant

**Physical Form:** One part neutral cure self-leveling RTV; cures at room temperature on exposure to moisture in air to a tough, rubbery solid.

**Applications:** Thin Section Potting                      Protective Conformal Coatings  
Insulating Electrical Terminals                      Filling Small Voids  
Horizontal Seam Sealing

**Available Sizes:**  Minimums may apply, contact customer service for more information.

**Colors:** 200-107 White • 200-257 Translucent • 200-250 Translucent • 200-260 Clear

## Novagard® High Temperature Sealants – 300 Series

**Description:** Sealing and bonding applications exposed to temperatures as high as 500°F (260°C) continuously or 600°F (315°C) intermittently.

**Special Characteristics:** Will not sag or run; may be applied overhead or on side walls; may be used in applications with continuous exposure to 500°F (260°C) and intermittent exposure to 600°F (315°C)

**Physical Form:** One-part non-slumping acetoxyl cure RTV; cures at room temperature on exposure to moisture in air to a tough, rubbery solid.

**Applications:** Heating Elements      Aerospace Gasketing      Moving Oven Belts  
Industrial Ovens      Bag Filters on Smoke Stacks

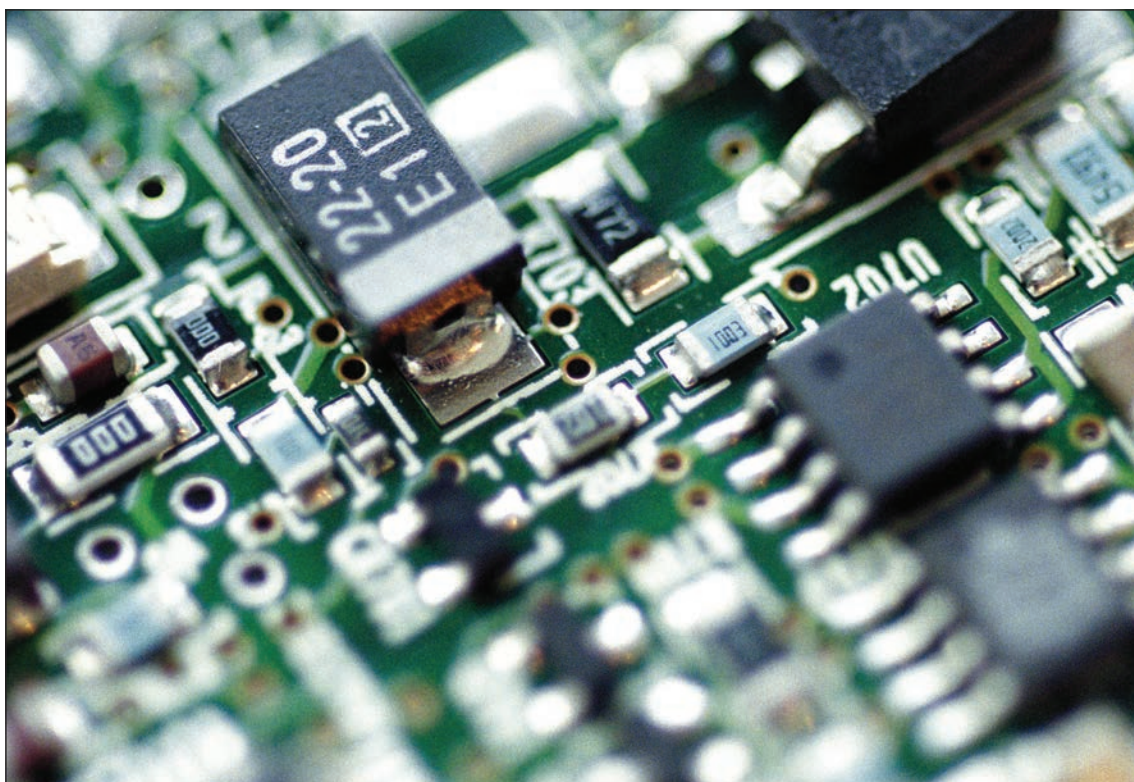
**Temperature Range:** Continuous from -85°F to 500°F (-65°C to 260°C); intermittent to 600°F (315°C).

**Available Sizes:**



*Minimums may apply, contact customer service for more information.*

**Colors:** 300-100 – Red



## Novagard® High Performance Silicone Adhesive Sealants –300 Series

**Description:** These sealants are one-part paste consistency products which can be applied to horizontal, vertical and overhead surfaces in applications requiring high strength (up to 1000 psi) and elongation (up to 1200%) performance. RTV 300-182 will perform at temperatures up to 600°F (315°C) intermittently.

**Special Characteristics:** High tensile strength, elongation and adhesion. RTV 300-182 has high temperature characteristics.

**Physical Form:** One-part non-slumping acetoxy cure RTV.

**Applications:** Heating Elements      Aerospace Gasketing      Moving Oven Belts  
Industrial Ovens      Bag Filters on Smoke Stacks

**Temperature Range:** RTV 300-111 continuous from -85°F to 450°F (-65°C to 232°C); intermittent to 500°F (260°C). RTV 300-182 continuous from -85°F to 500°F (-65°C to 260°C); intermittent to 600°F (315°C).

**Available Sizes:**



*Minimums may apply, contact customer service for more information.*

**Colors:** 300-111 Gray • 300-182 Red

## Novagard® RTV Silicone Typical Properties

Novagard Product	Cure By-Product	Novagard Part #	Temperature Range, °F (Continuous)	Temperature Range, °F (Intermittent)	Skin-Over Time
General Purpose Sealants	Acetic Acid	100-101	-62°F to 400°F	450°F	13 minutes
		100-102	-62°F to 400°F	450°F	13 minutes
		100-103	-62°F to 400°F	450°F	13 minutes
		100-150	-62°F to 400°F	450°F	13 minutes
Flowable Sealants	Oxime	200-107	-40°F to 300°F	350°F	10 minutes
		200-257	-40°F to 300°F	350°F	12 minutes
		200-250	-40°F to 300°F	350°F	12 minutes
		200-260	-40°F to 300°F	350°F	35 minutes
High Temperature Sealants	Acetic Acid	300-100	-85°F to 500°F	600°F	10 minutes
High Performance Silicone Adhesive Sealants	Acetic Acid	300-111	-85°F to 450°F	500°F	15 minutes
		300-182	-85°F to 500°F	600°F	15 minutes
Neutral Cure Paste Adhesives & Sealants	Oxime	400-100	-62°F to 400°F	450°F	7 minutes
		400-102	-62°F to 400°F	450°F	7 minutes
		400-103	-62°F to 400°F	450°F	7 minutes
		400-150	-62°F to 400°F	450°F	7 minutes
Fast Cure Sealants	Oxime	400-195	-62°F to 400°F	500°F	5 minutes
		400-202	-62°F to 400°F	500°F	5 minutes
Low Adhesion Sealants	Oxime	400-900	-40°F to 300°F	350°F	35 minutes
		400-950	-40°F to 300°F	350°F	35 minutes
Silicone Adhesive Sealants	Oxime	400-110	-62°F to 400°F	500°F	5 minutes
		400-118	-62°F to 400°F	500°F	5 minutes
		400-155	-62°F to 400°F	500°F	7 minutes
Oxymod Silicone Sealant	OxyMod	500-155	-62°F to 400°F	450°F	20 minutes
UL 094 V-0 Sealants	OxyMod	500-940	-62°F to 400°F	500°F	60 minutes
		500-942	-62°F to 400°F	500°F	60 minutes
2 Part Sealants	Alcohol	600-100	-62°F to 400°F	450°F	NA

*The values outlined reflect testing that was conducted on laboratory prepared specimens, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please contact Novagard Solutions for additional information.*

# Novagard® Neutral Cure Paste Adhesives and Sealants – 400 Series

**Description:** These are single component oxime silicone sealants and/or adhesives. They are non-flowable paste products offering an excellent balance between rate of cure, adhesion and physical properties.

**Special Characteristics:** RTV paste; excellent adhesion and sealing properties; low odor

**Physical Form:** One-part non-slumping neutral cure RTV; cures at room temperature on exposure to moisture in air to a tough, rubbery solid.

**Applications:** Substitute for Mechanical Fasteners      Formed-in-place gaskets  
 Sealing Refrigerator & Freezer Liners      Adhering Plastic moldings  
 Waterproofing Electrical Components      Sealing Coaxial Connectors  
 Protecting Instrumentation Assemblies

**Adheres To:** Dissimilar Substrates      Metal      Glass  
 Ceramic      Rubber      Most Plastics

**Available Sizes:**  Minimums may apply, contact customer service for more information.

**Colors:** 400-100 White • 400-102 Black • 400-103 Aluminum • 400-150 Translucent



SEALANTS

	Viscosity (cps)	Extrusion Rate, g/min	Durometer, Shore A	Tensile, psi	Elongation, %	Specific Gravity	Listings/Specifications	Colors
	NA	350**	18	200	600	1.03	NSF Standard 51	White
	NA	350**	18	200	600	1.03	NSF Standard 51	Black
	NA	350**	18	200	600	1.03	NSF Standard 51	Aluminum
	NA	350**	18	200	600	1.03	NSF Standard 51	Translucent
	70,000	NA	30	200	250	1.15		White
	25,000	NA	15	100	300	1.01		Translucent
	33,000	NA	12	100	250	1.01		Translucent
	400	NA	<10	<25	<50	1.01		Clear
	NA	350**	20	220	350	1.04		Red
	NA	300**	30	1000	1200	1.05		Gray
	NA	300**	30	1000	1200	1.10		Red
	NA	48*	23	200	600	1.20		White
	NA	48*	23	200	600	1.20		Black
	NA	48*	20	160	600	1.03		Aluminum
	NA	36*	18	160	600	1.01		Translucent
	NA	170**	18	170	500	1.01	GM 9985557	Translucent
	NA	170**	18	170	500	1.01	GM 9985557	Black
	NA	180*	33	200	500	1.22		White
	NA	280*	30	180	400	1.01		Translucent
	NA	150**	40	400	400	1.14	Chrysler MSCD135	Black
	NA	150**	40	400	400	1.14	Chrysler MSCD135	Gray
	NA	40*	20	200	300	1.01	Chrysler MSCD135	Translucent
	NA	300**	20	150	500	1.02		Translucent
	NA	150**	45	250	200	1.55	UL 94 V-0	White
	NA	150**	45	250	200	1.55	UL 94 V-0	Dark Gray
	NA	NA	40	150	200	1.20		Gray

\* Tested @ 50 psi  
 \*\* Tested @ 90 psi

## Novagard® Fast Cure Sealants – 400 Series

**Description:** Novagard fast cure sealants are single-component silicone sealants and/or adhesives. These are non-flowable, paste products that provide fast tack free times and high green strength. These fast cure products out perform slower materials in multi-step assembly applications. The fast tack and early strength combine to hold the assembly together as the unit moves from station to station.

**Special Characteristics:** Fast tack free times (4-7 minute skin over times) and tensile strengths (150-200 psi after fully cured), low odor formulation

**Physical Form:** One-part non-slumping neutral cure RTV; cures at room temperature on exposure to moisture in air to a tough, rubbery solid.

**Applications:** Component assembly      Component staking  
Formed-in-place gaskets

**Available Sizes:**



*Minimums may apply, contact customer service for more information.*

**Colors:** 400-195 Translucent • 400-202 Black

## Novagard® Low Adhesion Sealants – 400 Series

**Description:** Novagard low adhesion sealants are single-component, non-flowable RTV silicones that cure to a solid rubber like normal silicone RTV except with low adhesion. Ideal for creating formed-in-place gaskets where re-entry or post-production disassembly is necessary.

**Special Characteristics:** Easy to remove sealant

**Physical Form:** One-part non-slumping neutral cure RTV; cures at room temperature on exposure to moisture in air to a tough, rubbery solid.

**Applications:** Removable Seals      Temporary Seals

**Available Sizes:**



*Minimums may apply, contact customer service for more information.*

**Colors:** 400-900 White • 400-950 Translucent



## Novagard® High Strength Sealants – 400 Series

**Description:** These products offer excellent adhesion to numerous substrates including plastics and metals. They also offer outstanding resistance to gasoline, brake fluid, antifreeze and most wheel cleaners.

**Special Characteristics:** High tensile strength (300-400 psi), elongation (300-400%), adhesion (>45 pli) and chemical resistance. 400-155 translucent offers 200-250 psi tensile strength.

**Physical Form:** One-part non-slumping neutral cure RTV; cures at room temperature on exposure to moisture in air to a tough, rubbery solid.

**Applications:** High strength bonding                      Deep section cure applications

**Adheres To:** Most Metals                                      Most Plastics

**Available Sizes:**  10.3 oz tube     5 gallon pail     55 gallon drum    

*Minimums may apply, contact customer service for more information.*

**Colors:** 400-110 Black • 400-118 Gray • 400-155 Translucent

## Novagard® Modified Alkoxy Silicone Sealant - 500 Series

**Description:** Novagard Modified Alkoxy silicone sealants are non-corrosive, single component pastes. These products are non-corrosive when tested in accordance with Mil Spec A-46146B. Ideal for applications that require quick cures and early green strength development on electronic components, circuit boards and other sensitive components.

**Special Characteristics:** Non-corrosive when tested to Mil Spec A-46146B, quick cure and early green strength.

**Physical Form:** One-part non-slumping RTV; cures at room temperature on exposure to moisture in air to a tough, rubbery solid.

**Applications:** Electronic Components                      Circuit Boards                      Other Sensitive Components

**Available Sizes:**  10.3 oz tube    

*Minimums may apply, contact customer service for more information.*

**Colors:** 500-150 Translucent  
500-100 White





## Novagard® UV Curable Sealants – 800 Series

**Description:** The Novagard UV/Dual cure sealants are available in flowables, pastes and gels. These products will cure within three seconds when exposed to a UV light source. They are ideal for increasing through-put and eliminating the need to rack parts. Our paste products can be foamed up to 1/4" thick to reduce material costs.

**Special Characteristics:** Production line speed cure rate (~3 seconds), depth of cure up to 5/8" depending on product. Requires minimal UV energy source. \*Approved under UL746E for indoor and outdoor usage on printed circuit boards as a conformal coating:

**Physical Form:** Flowable, Paste or Gel

**Applications:** Formed-in-place gaskets    Board coatings    Potting applications  
 Electronics    Silicone rubber bonding    Glass bonding

**Available Sizes:**  Minimums may apply, contact customer service for more information.

## Novagard® UV/Dual Cure Sealants – 800 Series Typical Properties

UV Product Type	Product Number	Appearance, Clarity and Color	Cure Type	Depth of Cure (1 Second @ 650 mW/cm <sup>2</sup> )	Viscosity (cps), Brookfield, 25°C	Tensile Strength	Elongation at Break (%)	Shore A Hardness	Temperature Range
Flowable	800-250	Clear	Ultraviolet, moisture, neutral	>5/8" (16 mm)	800 cps	20 psi	25%	15	-65°F to 350°F
	800-260	Translucent	Ultraviolet, moisture, neutral	3/16" (5 mm)	5,500	50 psi	100%	25	-65°F to 350°F
Paste	800-305	Translucent	Ultraviolet, moisture, neutral	3/16" (5 mm)	Paste	170 psi	500%	30	-65°F to 350°F
	800-400	Translucent	UV Only	3/16" (5 mm)	Soft Paste	450 psi	1400%	35	-65°F to 350°F

UV Product Type	Product Number	Appearance, Clarity and Color	Cure Type	Depth of Cure (1 Second @ 650 mW/cm <sup>2</sup> )	Viscosity (cps), Brookfield, 25°C	Penetration (Shore 00)	Specific Gravity	Dielectric Strength volts/mil kV/mm	Dielectric Constant at 100 Hz/ 100 kHz	Volume Resistivity, ohm-cm	Dissipation Factor at 100 Hz/ 100 kHz
Gels	800-610	Clear	UV Only	1/4" (6 mm)	<500 cps	80	0.98	500 20	3.30 / 3.20	5.41 x10 <sup>14</sup>	0.0039 / 0.0024
	800-620	Clear	UV Only	1/4" (6 mm)	1500 cps	60	0.98	480 19	3.37 / 3.34	4.66 x10 <sup>14</sup>	0.0036 / 0.0029

## Novagard® Flowable & Paste Sealants Dielectric Typical Properties

	Dielectric Strength (v/mil)	Dielectric Constant 100 Hz / 100 kHz	Volume Resistivity (ohm-cm)	Dissipation Factor 100 Hz / 100 kHz
Flowables	350	3.34 / 3.32	2.25 x 10 <sup>14</sup>	0.0024 / 0.0025
Pastes	400	3.43 / 3.41	4.77 x 10 <sup>14</sup>	0.0022 / 0.0022

The values outlined reflect testing that was conducted on laboratory prepared specimens, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please contact Novagard Solutions for additional information.

## The Novagard® Silicone Advantage

Silicone based lubricants provide high performance and are more versatile than most materials available today. The unique properties inherent in the molecular backbone of silicone and oxygen contribute to silicone's attractiveness where service requirements are extreme and/or where minimal maintenance attention is desired. Under many circumstances, silicone based products offer longer service life.

### Typical Properties of Novagard Silicone Greases and Compounds Include:

- Wide operating temperature ranges, -100°F to 400°F, higher in intermittent operation
- Ability to maintain viscosity, and/or consistency, without solidifying, smoking, melting or charring
- High oxidation resistance
- Good water washout resistance
- Excellent dielectric properties
- Noncorrosive, chemically inert, compatible with plastic and most organics
- Good release properties
- Excellent hydrolytic stability

## Novagard® Versilube® Silicone Greases

These lithium soap thickened greases designed for metal to metal and non-metallic applications to reduce friction and wear under heavy loads, slow speeds, extreme temperature and variable environmental conditions. They are ideal lubricants for applications requiring extended service intervals.

- G321**
  - Good adherence and non-corrosive
  - Wide temperature range -73°C to 204°C (-100°F to 400°F)
  - Chemically inactive and oxidation-resistant
  - Conforms to CID A-A-59173 Type II (formerly Mil-G-46886B)
- G322L**
  - Outstanding viscosity-temperature characteristics
  - Wide temperature range -55°C to 150°C (-65°F to 300°F)
  - Corrosion protection
  - Good adherence and non-corrosive
- G326**
  - Higher load carrying capability
  - Formulated for aluminum and steel substrates
  - Enhanced corrosion protection
  - Safe for a variety of plastics, metals, glass and painted surfaces
- G330M**
  - Higher load capacity
  - Excellent water washout resistance
  - Outstanding shear stability
- G351**
  - Offers excellent oxidation resistance, aging and work stability
  - Wide temperature range -40°C to 204°C (-40°F to 400°F)
  - Oxidation and radiation resistant
  - Conforms to Mil-L-15719



Versilube greases are not recommended for use on bearings with a D/N ratio exceeding 200,000. D/N ratio is calculated by multiplying the diameter (mm) times the bearing speed (rpm).

## Novagard® General Purpose/Dielectric Compounds

Novagard silicone compounds are non-curing, grease-like materials designed for a diverse scope of applications. These silicone compounds are silicone fluids thickened with inorganic fillers. Novagard silicone compounds exhibit excellent adherence to varying materials, often adhering under conditions where a fluid would easily drip or spin off. They offer maximum coverage without requiring excessive amounts of product. These products will function as general purpose compounds, dielectric compounds or thermally conductive compounds.

- G624®**
  - Excellent rubber and plastic lubricant
  - Resistance to moisture, corrosion and oxidation
  - Wide temperature range -55°C to 150°C (-65°F to 300°F)
  - Conforms to SAE AS-8660 (formerly Mil-S-8660C)
- G635®**
  - Outstanding water repellent and dielectric compound
  - Wide temperature range -57°C to 204°C (-70°F to 400°F)
  - Hydrolytically stable and low toxicity
  - Oxidation and radiation resistant
- G661®**
  - Ideal for sealing and protecting electrical connections above and below ground
  - Wide temperature range -40°C to 204°C (-40°F to 400°F)
  - Hydrolytically stable and low toxicity
  - Excellent dielectric and water repellent
- G662**
  - Ideal for valve and O-ring lubrication
  - Excellent vacuum capabilities
  - Outstanding water resistance
  - Certified to NSF Standard 61 for Drinking Water System Components
- G687**
  - Ideal for high voltage insulators to prevent flashover
  - Excellent dielectric and water repellent
  - Good adherence
  - Chemically inactive and low toxicity
- G697**
  - Excellent rubber and plastic lubricant
  - Resistant to moisture, corrosion and oxidation
  - Wide temperature range -55°C to 150°C (-65°F to 300°F)
  - Conforms to Mil-C-21567A



## Novagard® Thermally Conductive Compounds

- G641**
- Ideal for thermocouple wells, power diodes, transistors, semiconductors & ballasts
  - Excellent heat transfer compound for electrical and electronic industries
  - Outstanding long-term storage stability without oil separation
- G644**
- Ideal for thermocouple wells, power diodes, transistors, semiconductors & ballasts
  - Excellent heat transfer compound for electrical and electronic industries
  - Outstanding long-term storage stability without oil separation
  - G644 is a lower viscosity or softer version of G641

### Material Compatibility

Generally, silicone materials have the following impact on material properties:

- Silicone Rubber – Tends to swell, soften and decrease in tensile strength.
- Fluoro Rubber – No effect.
- Organic Rubber – Slight shrinkage, hardening and loss of physical properties.
- Plastic – No effect on polycarbonate, phenolic, polystyrene nylon, methacrylics or PTFE. Slight swelling or shrinkage may occur in polyacetal, polyethylene, polypropylene or PVC.

### Methods of Application

Silicone greases and compounds may be wiped on, brushed on, dispensed from a grease gun or applied by automated equipment. In addition, when dispersed in a non-polar solvent they may be applied by brushing, spraying or dip coating. Caution is required in the selection of solvents.

### Handling and Safety

Material Safety Data sheets are available upon request from Novagard Solutions.

Cleanup of silicone greases and compounds can be accomplished using non-polar solvents such as mineral spirits. They are soluble in stoddard solvent, toluene and xylene. Caution should be observed whenever handling solvents.

Silicone greases are not suitable for use in contact with high concentrations of oxygen or highly oxidative materials. Contact with high pressure oxygen, ozone, peroxides or fuming nitric acid can result in fire or explosion. Silicone materials are damaged by exposure to strong mineral acids (e.g. sulfuric, hydrochloric, nitric), strong alkaline (e.g. sodium or potassium hydroxides), nitrates or peroxides.

## Novagard® Silicone Grease & Compounds Applications & Characteristics

	G321	G322	G326	G330M	G351	G624	G635	G641	G644	G661	G662	G687	G697
metal to metal													
aluminum lubrication													
ball bearings													
roller bearings													
sleeve bearings													
chassis lubrication													
chains, high temperature													
swivel joints													
heavy loads													
medium loads													
light loads													
low speeds													
thread protection													
metal to rubber													
metal to plastic													
rubber to plastic													
high temperature operation													
low temperature operation													
chemical environment													
moisture													
vacuum													
radiation resistant													
thermal conductors													
corrosion protection													
oxidation resistant													
water resistant													
non-polar solvent soluble													
dielectric													
flashpoint	all	have	flash	points	above	300° F							
release													
electrical insulators & connectors													
electronics													
telecommunication connectors													
relays and switches													
seals													
spindles													
conveyors													
well drilling													
A-A-59173 (Mil-G-46886B)													
Mil-L-15719A													
SAE AS-8660 (formerly Mil-S-8660C)													
Mil-C-21567C													
NSF Standard 61													

ISO 9001:2000 ISO/TS 16949:2002



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Made In USA

ISO 9001:2000  
ISO/TS 16949:2002

**Warranty:** Novagard Solutions warrants that products will meet or exceed their specifications. There is no warranty for merchantability or fitness for use, nor any other expressed or implied warranties. All recommendations for use of these products are derived from tests and data believed to be reliable. Novagard Solutions shall not be liable for injury, incidental or consequential damages resulting from use of this product. Manufacturer's only liability shall be to replace that portion of the product proven to be defective.