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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:GlazingSealingBonding glassMetalsPlasticsCeramics

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 P sales Sealants contain those ingredients which conform to FDA requirements as published in the Code of Federal Regulations.

Available Sizes: 30z tube 10.3 oz tube 5 gallon pail 55 gallon drum 55 gallon 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

Insulating Electrical Terminals Horizontal Seam Sealing Protective Conformal Coatings Filling Small Voids

Available Sizes:

10.3 oz 1 1quart 5 gallon 55 gallo tube can pail drum

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 acetoxy 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).

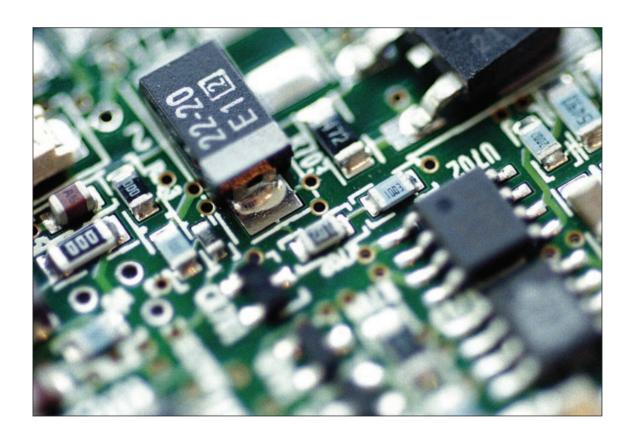
Minimums may apply, contact customer

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Colors: 300-100 – Red

10.3 oz

Available Sizes:





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: 10.3 oz 5 gallon 55 gallon pail 4 drum

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	Acetic Acid	300-111	-85°F to 450°F	500°F	15 minutes	
Adhesive Sealants		300-182	-85°F to 500°F	600°F	15 minutes	
Neutral Cure Paste	Oxime	400-100	-62°F to 400°F	450°F	7 minutes	
Adhesives & Sealants		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	

Minimums may apply, contact customer service for more information.

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 Fasterners

Sealing Refrigerator & Freezer Liners Waterproofing Electrical Components

Protecting Instrumentation Assemblies

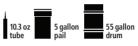
Formed-in-place gaskets Adhering Plastic moldings Sealing Coaxial Connectors

Adheres To: Dissimilar Substrates

Ceramic

Metal Rubber Glass **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

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

Formed-in-place gaskets

Component staking

Available Sizes:

10.3 oz 5 gallon 55 gallon tube pail drum

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: 10.3 oz 5 gallon

n 55 gallon drum

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 5 gallon 55 gallon Minimums may apply, contact customer

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 ad 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.

Available Sizes:

10.3 oz tube

Minimums may apply, contact customer service for more information.

Colors: 500-150 Translucent 500-100 White





Novagard® UL 94 V-0 Sealants – 500 Series

Description: This sealant is formulated for application in assemblies requiring flame retardancy. This low odor material is UL recognized and complies with testing requirements of UL 94 V-0, a vertical burn test that evaluates self-extinguishing characteristics.

Special Characteristics: Flame retardant, complies to UL 94 V-0

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

Applications: Electronic Housings

Solar Panels Flame Resistant Applications

Available Sizes:

10.3 oz tube 5 gallon

allon 55 gallon

Minimums may apply, contact customer service for more information.

Stake Electronic Components

High Voltage Electronics

Parts Fixing on CRT

Colors: 500- 940 White • 500-942 Dark Gray

Novagard® 2-Part Sealants – 600 Series

Description: These 2-part, condensation cured, premium grade silicone rubber sealants for use as an adhesive when bonding dissimilar substrates, or as a sealant for creating formed-in-place gaskets.

Special Characteristics: Rapid strength development (< 4 minutes), improved through-put, superior chemical resistance, wide range of compatibility, low shrinkage, cures without inhibition.

Physical Form: 2-part, condensation cured premium grade silicone rubber

Applications: Potting applications

Sensors Amplifiers

Automotive wheels

Power supplies Industrial controls High voltage resistor packs

OEM Glazing

Connectors Transformers

Relays

Flexible heaters

Available Sizes:

400 mL 5 gallon 55 g tube 5 gallon drur

Minimums may apply, contact customer service for more information.

Colors: 600-100 Gray

600-150 Translucent

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:

103 oz
11 gallon
1 ga

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/cm²)	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		Appearance, Clarity and Color	Cure Type	Depth of Cure (1 Second @ 650 mW/cm ²)				Dielectric Strength volts/mil kV/mm		Volume Resistivity, ohm-cm	Dissipation Factor at 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 ¹⁴	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 ¹⁴	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 ¹⁴	0.0024 / 0.0025		
Pastes	400	3.43 / 3.41	4.77 x 10 ¹⁴	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	G251	G624	G635	G641	G644	G661	G662	G687	G697
metal to metal	U321	UJZZ	G 320	GOOGIVI	0331	0024	0055	0041	4044	G001	G002	0007	0037
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				i									
electrical insulators & connectors													
electronics													
telecommunication connectors													
relays and switches													
seals													
spindles													
conveyors													
well drilling													
	<u> </u>												
A-A-59173 (Mil-G-46886B)													
Mil-L-15719A													
SAE AS-8660 (formerly Mil-S-8660C)	1												
Mil-C-21567C	1												
NSF Standard 61													
1451 Standard OT													

ISO 9001:2000 ISO/TS 16949:2002





Engineered Products... Innovative Thinking

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> ISO 9001:2000 ISO/TS 16949:2002

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