Industrial Silicones

Product Selection Guide

NOVAGARD®

WOMEN OWNED®

The values outlined in the following tables reflect testing that was conducted under laboratory conditions,
actual results may vary. Some data in the enclosed tables are derived from pre-production samples and are subject to change.
The information provided in the tables is not intended for use in preparing specifications. Please consult your sales representative for additional info.

Whatever you're doing with your manufacturing

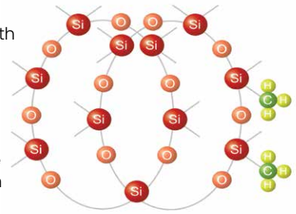
Adhering
Assembling
Gasketing
Protecting
Lubricating

Silicone does it better.

Silicones are **inert synthetic compounds** whose main component is **silicon** combined to **oxygen**.

These silicon-oxygen linkages (called siloxanes) have an extended bond length and uncommonly open bond angle as compared with other materials – properties our scientists leverage into product performance.

Derived from sand, silicone's backbone is solvent and carbon-free, making it an eco-friendly and sustainable option.



It begins with the chemistry.

Product Performance **Advantages**:

- Protection against shock and vibration
- Flexible over a wide temperature range
- High dielectric strength and insulation resistance
- Resistant to chemicals and UV radiation
- Excellent adhesion to many substrates including metals and plastics
- Modifiable characteristics makes it the ideal material for just about any job

Novagard Silicone **Advantages**:

- Multiple cure technologies
- Great adhesion
- Wide viscosity range
- Quality products meeting the highest industry standards
- PFAS free

Silicone does it better. And nobody does silicone better than **Novagard**.

It continues with our formulations.

With over 35 years of silicone experimentation and development, Novagard offers you a broad line of proven silicone products. And with no harmful VOC emissions or outgassing, our 100% solid materials are simply safer for people and the planet, while removing complexity, cost, and time from your manufacturing processes.

Adhesive Pastes

Essential Attributes	400-1xx page 6	900-1xx page 7	500-09x page 7	400-195 page 8	400-196 page 8	400-202 page 8	400-590 page 9	500-600 (Part A/Part B) page 9	900-5xx page 10	400-110 400-118 page 11	400-155 page 11	500-642 (Part A/Part B) page 12	400-900 400-950 page 13
	General Purpose			Fast Cure					High Strength				Low Adhesion
PHYSICAL PROPERTIES													
Appearance	Paste, various colors	Paste, various colors	Coming Soon	Paste, translucent	Paste, translucent	Paste, black	Paste, black	Paste, black / Paste, white	Paste, various colors	Paste, black or gray	Paste, translucent	Paste, black / Paste, off-white	Paste, white or trans.
Cure Chemistry	Oxime Silicone	Alkoxy Hybrid		Oxime Silicone	Oxime Silicone	Oxime Silicone	Oxime Silicone	Alkoxy Silicone	Alkoxy Hybrid	Oxime Silicone	Oxime Silicone	Alkoxy Silicone	Oxime Silicone
Viscosity (cPs)	450,000-750,000	225,000-650,000		350,000-800,000	200,000-400,000	350,000-800,000	-	75,000-150,000 / 40,000-55,000	450,000-900,000	-	-	150,000-400,000 / 35,000-100,000	320,000-550,000 / 150,000-250,000
Skin-Time	5 - 10 min	15 - 45 min		4 - 7 min	4 - 10 min	4 - 7 min	<15 min	<10 min	15 - 45 min	3 - 10 min	5 - 15 min	-	30 - 40 min
Through Cure	24 hrs	-		24 hrs	24 hrs	24 hrs	<24 hrs	-	4 days	2 - 24 hrs	3 - 6 hrs	-	24 hrs
Tensile Strength	160 - 200 psi	250 - 400 psi		150 - 200 psi	150 - 200 psi	150 - 200 psi	200 - 300 psi	200 - 300 psi	350 - 450 psi	300 - 400 psi	>200 psi	175 - 275 psi	200 - 250 psi
Elongation	500 - 600%	250 - 400%		500 - 600%	500 - 600%	500 - 600%	400 - 500%	300 - 400%	350 - 550%	300 - 400%	>300%	250 - 350%	250 - 350%
Hardness (Shore A)	25 ± 5	45 - 55		20 ± 5	20 ± 5	20 ± 5	>40	35 - 45	40 ± 5	>20	20 - 40	45 - 50	40 ± 5
Adhesion	glass, aluminum, Lexan®	glass, aluminum, concrete, wood, PVC		glass, aluminum, wood	glass, aluminum, wood	glass, aluminum, Lexan®	chrome plated plastic, acrylic coated metal	glass, aluminum, steel, ceramic	glass, aluminum, wood	chrome plated plastic, acrylic coated metal	glass, aluminum, wood	chrome plated plastic, acrylic coated metal	no bond

Discovering the best method to bond components together for a specific application is about the most common challenge in manufacturing.

Novagard strives to produce exceptional solutions with sustainable silicone technology that meets all performance goals within harsh environments.

General Purpose Adhesive Pastes

General Purpose Oxime-Cure Silicone Paste

400-1xx

400-1xx is a single-component, non-sagging silicone paste that cures to a low to medium modulus, rubber-like solid. The cure mechanism is neutral (oxime), which cures on exposure to moisture in room temperature air. It is non-corrosive to metal substrates such as aluminum and ferrous metals (with adequate ventilation).

This ready-to-use adhesive sealant skins over in 5 - 10 minutes, and bonds to most common substrates without the use of a primer. With a lower odor than conventional acetoxy-cured silicones, this general purpose silicone is used in any area where the weather and environment needs to be sealed out.

400-100 (white)
400-102 (black)
400-103 (aluminum)
400-108 (gray)
400-150 (translucent)

Applications include:
- Substitute for mechanical fasteners
- Formed-in-place gaskets
- Sealing refrigerator & freezer liners
- Adhering plastic moldings
- Waterproofing electrical components
- Sealing coaxial connectors
- Protecting instrumentation assemblies

	400-1xx series
Appearance	Paste, various colors
Cure Chemistry	Oxime Silicone
Viscosity (cPs) Brookfield #7 @ 10 rpm	450,000-750,000
Skin-Time 3/8" @ 50% RH & 77°F	5 - 10 min
Through Cure 3/8" @ 50% RH & 77°F	24 hrs
Tensile Strength ASTM D412	160 - 200 psi
Elongation ASTM D412	500 - 600%
Hardness (Shore A) ASTM D2240	25 ± 5
Adhesion ASTM C794 Glass Aluminum Lexan®	12 - 15 pli 10 - 14 pli 12 - 15 pli
Specific Gravity	1.15 - 1.25
Tear Resistance ASTM D624	30 - 35 pli
Extrusion Rate 1/8" orifice @ 50 psi	30 - 80 g/min
Service Temp	-40°F to 400°F (-40°C to 204°C)

General Purpose Silicone-Free Hybrid Adhesive

900-1xx

Functioning as an alkoxy-cure hybrid adhesive sealant, this silicone-free paste bonds to most substrates without the use of a primer. A paintable adhesive, it is ideal for sealing materials with dissimilar coefficients of expansion. Suitable for use in automotive paint facilities and other environments that must remain silicone free.

900-100 (white) **900-102** (black)

Applications include:
- Metal-to-metal bonding
- Adhering to plastics, fiberglass, glass, and all common industrial substrates

UL94 V0 Alkoxy Silicone Paste (1-part sealant)

500-09x

COMING SOON

500-09x is a neutral cure (alkoxy), UL94 V0 rated black paste for applications that require superior bond strength and flame resistance.

This one-part paste has a good balance of tensile strength and elongation and cures to a tough, resilient rubber. When a non-corrosive product is required, 500-09x is an unprimed adhesive solution that delivers a more uniform bond, acts like a gasket to protect against moisture and dust, and helps dampen vibrations. This paste is safe for electronics applications.

500-09x skins over in 5 – 15 minutes, and is completely cured within 72 hours. Specially formulated to retain its physical properties even during service in extreme environmental conditions, it is ideal for applications that require superior bond strength and a UL94 V0 rating.

Applications include:
- Frame and junction box sealant in photovoltaic modules, sensitive electronic components, and circuit boards
- General industrial sealing and bonding applications requiring a non-corrosive product

	900-1xx series	500-09x
Appearance	Paste, various colors	Coming Soon
Cure Chemistry	Alkoxy Hybrid	
Viscosity (cPs) Brookfield #7 @ 10 rpm	225,000-650,000	
Skin-Time 3/8" @ 50% RH & 77°F	15 - 45 min	
Tensile Strength ASTM D412	250 - 400 psi	
Elongation ASTM D412	250 - 400%	
Hardness (Shore A) ASTM D2240	45 - 55	
Adhesion ASTM C794 Glass Aluminum Concrete Wood PVC	7 - 13 pli 9 - 14 pli 9 - 17 pli 7 - 17 pli 7 - 12 pli	
Specific Gravity	1.35 - 1.45	
Extrusion Rate 1/8" orifice @ 50 psi	>100 g/min	
Slump Boeing Jig ASTM D2202	<0.1"	

Fast-Cure Adhesive Pastes

Fast-Cure Oxime Paste

400-195 / 400-196 / 400-202

400-195 and 400-202 are non-flowable, non-sagging pastes that provide a fast tack free time and high green strength. 400-196 has similar physical properties in a softer and slumpier uncured form. The fast tack and early strength of these materials combine to hold the assembly together as a unit moves from station to station, outperforming slower materials in multi-step assembly applications.

The cure mechanism is neutral (oxime), curing on exposure to moisture in room temperature air. They are non-corrosive to metal substrates such as aluminum and ferrous metals (with adequate ventilation), and offer excellent adhesion to numerous substrates including metals and plastics. These smooth pastes cure to a low to medium modulus, rubber-like solid, and are ideal for applications that require superior bond strength and moisture resistance.

400-195 can serve as a drop-in replacement for DOWSIL™ 737 Neutral Cure Sealant. 400-195 and 400-202 are listed on the GM 9985557 / GMW18180 specifications.

400-195 (translucent)
400-196 (translucent)
400-202 (black)

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

	400-195	400-196	400-202
Appearance	Paste, translucent	Paste, translucent	Paste, black
Cure Chemistry	Oxime Silicone	Oxime Silicone	Oxime Silicone
Viscosity (cPs) Brookfield #7 @ 10 rpm	350,000-800,000	200,000-400,000	350,000-800,000
Skin-Time 3/8" @ 50% RH & 77°F	4 - 7 min	4 - 10 min	4 - 7 min
Through Cure 3/8" @ 50% RH & 77°F	24 hrs	24 hrs	24 hrs
Tensile Strength ASTM D412	150 - 200 psi	150 - 180 psi	150 - 200 psi
Elongation ASTM D412	500 - 600%	500 - 600%	500 - 600%
Hardness (Shore A) ASTM D2240	20 ± 5	20 ± 5	20 ± 5
Adhesion ASTM C794 Glass Aluminum Wood Lexan®	12 - 15 pli 10 - 14 pli 12 - 15 pli -	12 - 15 pli 10 - 14 pli 12 - 15 pli -	12 - 15 pli 10 - 14 pli - 12 - 15 pli
Specific Gravity	1.00 - 1.05	1.00 - 1.05	1.00 - 1.05
Tear Resistance ASTM D624	30 - 35 pli	30 - 35 pli	30 - 35 pli
Extrusion Rate 1/8" orifice @ 90 psi	>100 g/min	-	>100 g/min
Dielectric Strength ASTM D149	>27.9 kV/mm (708 V/mil)	-	-
Volume Resistivity ASTM D257	$1.5x10^{15}$ Ω-cm	-	-
Specifications	GM 9985557 GMW18180	-	GM 9985557 GMW18180

Blow Out Resistant Oxime-Cure Silicone Paste

400-590

400-590 is a single-component, moisture-curing silicone paste that cures to a low to medium modulus, rubber-like solid. The cure mechanism is neutral (oxime), curing on exposure to moisture in room temperature air. It is non-corrosive to metal substrates such as aluminum and ferrous metals (with adequate ventilation), and offers excellent adhesion to numerous substrates including metals and plastics.

This ready-to-use adhesive sealant skins over in less than 15 minutes, and has a tensile strength of 200 - 300 psi after fully cured. When used as a blow-out resistant gasket (such as an automotive rear differential), 400-590 can withstand a 4 psi pressure test after 5 minutes. 400-590 is a smooth, black paste that is ideal for applications that require superior bond strength and moisture resistant sealing in automotive and industrial arenas.

Applications include:
- Formed-in-place gaskets that must be pressurized immediately after assembly

Two-Component Fast-Cure Silicone Paste

500-600

Designed with a simple 2:1 fixed ratio for easy handling, this 2-component industrial adhesive is ideal for high-speed assembly. 500-600 is a very quick curing material with less than 5 minutes open time. It rapidly builds green strength to allow parts to move swiftly from station to station in the assembly process without shifting. It is a medium modulus material with a balanced adhesion profile, and its low viscosities reduce strain on dispensing equipment. 500-600 adheres to many industrial substrates, including aluminum, steel, ceramic, ceramic glass, and polyester coated aluminum.

Applications include:
- General industrial assembly
- Consumer products assembly

	400-590	500-600 (Part A/Part B)
Appearance	Paste, black	Paste, black Paste, white
Cure Chemistry	Oxime Silicone	Alkoxy Silicone
Viscosity (cPs) Brookfield #7 @ 10 rpm	-	75,000-150,000 40,000-55,000
Base Ratio by Volume	n/a	2:1
Base Ratio by Weight	n/a	1.6:1
Mixed Color	n/a	black
Mixed Specific Gravity	n/a	1.4
Snap Time	n/a	<10 min
Tack-Free Time	n/a	<10 min
Working Time	n/a	<5 min
Skin-Time 3/8" @ 50% RH & 77°F	<15 min	<10 min
Through Cure 1/8" @ 50% RH & 77°F	<24 hrs	-
Tensile Strength ASTM D412	200 - 300 psi	200 - 300 psi
Elongation ASTM D412	400 - 500%	300 - 400%
Hardness (Shore A) ASTM D2240	>40	35 - 45
Adhesion ASTM C794 (7 days @75°F/100% RH) Chrome Plated Plastic Acrylic Coated Metal	>20 pli >20 pli	- -
Specific Gravity	1.30 - 1.45	-
Extrusion Rate 1/8" orifice @ 90 psi	45-120 g/min minimum	-
Slump Boeing Jig ASTM D2202	<0.3"	<0.3"
Chemical Resistance Novagard Test Method Gasoline Break Fluid Antifreeze Wheel Cleaner	no effect	-
Shear Stress ASTM D1002 (@25°C/50% RH) Ceramic Glass to Stainless Steel Ceramic Glass to Aluminum Stainless Steel Polyester Painted Aluminum Ceramic Glass Ceramic Tile Galvalume Aluminum Glass	-	150 - 200 psi 150 - 250 psi 150 - 200 psi 100 - 150 psi 100 - 200 psi 150 - 250 psi 150 - 250 psi 175 - 225 psi 125 - 175 psi

High Strength Adhesive Pastes

Heavy-Duty Fastening Silicone-Free Hybrid Paste Sealant

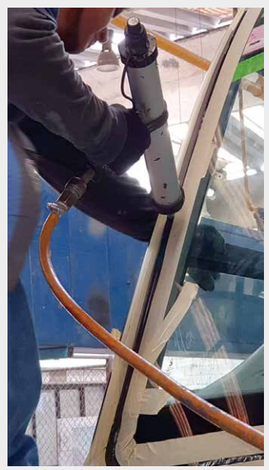
900-5xx

Use our heavy-duty high strength fastening hybrid paste for bonding in a single step. This remarkable, silicone-free adhesive can replace rivets, screws, welds, and other mechanical fasteners. Extremely peel and tear resistant, our 900-5xx series bonds to most substrates without the use of a primer.

Novagard 900-5xx series can be used in place of Sikaflex® 552 or 252, and Manus-Bond 25-AM. With a viscosity of 450,000 – 900,000 cPs, this non-corrosive paste skins over in 15 – 45 minutes, and is thoroughly cured in 4 days. 900-5xx can be painted after 1 hour.

900-502 (black)
900-511 (gray)

Applications include:
- Vehicle coachwork assembly
- Exterior building waterproofing



Selecting the right sealant

Silicones sit on top of the sealant hierarchy as they are the only inorganic sealant that will not degrade over time. However, some applications call for an organic hybrid.

Novagard hybrids offer many of the same qualities as a silicone – no solvents, low VOC, and are high in solid material content. Hybrids will not shrink or crack even when exposed to harsh weather. They are paintable and will bond to most substrates without primer, making hybrids ideal for sealing materials with dissimilar coefficients of expansion.

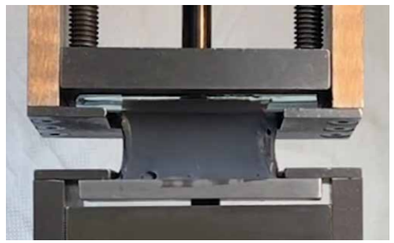
	900-5xx series
Appearance	Paste, various colors
Cure Chemistry	Alkoxy Hybrid
Viscosity (cPs) 70-L0-Viscosity HBT @ 10 rpm	450,000-900,000
Skin-Time 70-L0-Skin @ 50% RH & 77°F	15 - 45 min
Through Cure 3/8" @ 50% RH & 77°F	4 days
Tensile Strength ASTM D412	300 - 450 psi
Elongation ASTM D412	350 - 550%
Hardness (Shore A) ASTM D2240	40 ± 5
Adhesion ASTM C794 Glass Aluminum Wood	19 - 25 pli 15 - 40 pli 12 - 16 pli
Shear Stress ASTM D1002 Aluminum Galvanized Steel Kemlite®	200 - 250 psi 200 - 250 psi 200 - 250 psi
UV Exposure ASTM G154 (2,000 hours UV - A)	pass
Application Temp	-30°F to 120°F (-34°C to 49°C)
Service Temp	-35°F to 225°F (-37°C to 107°C)

High Strength Oxime-Cure Silicone Paste

400-110 / 400-118 / 400-155

400-110, 400-118, and 400-155 are non-flowable, non-sagging pastes that are ideal for industrial applications that require superior bond strength and moisture resistance. These cure to a low to medium modulus, rubber-like solid.

The cure mechanism is neutral (oxime), curing on exposure to moisture in room temperature air. It is non-corrosive to metal substrates such as aluminum and ferrous metals (with adequate ventilation), and offers excellent adhesion to numerous substrates including plastics and metals. These ready-to-use adhesive sealants skin over in 3 – 15 minutes, and are well suited to sealing and bonding applications within many arenas.



400-110 (black)
400-118 (gray)
400-155 (translucent)

Applications include:
- High strength bonding
- Deep section cure applications

	400-110 400-118	400-155
Appearance	Paste, black or gray	Paste, translucent
Cure Chemistry	Oxime Silicone	Oxime Silicone
Skin-Time 3/8" @ 50% RH & 77°F	3 - 10 min	5 - 15 min
Through Cure 1/8" @ 50% RH & 77°F	2 - 24 hrs	3 - 6 hrs
Tensile Strength ASTM D412	300 - 400 psi	>200 psi
Elongation ASTM D412	300 - 400%	>300%
Hardness (Shore A) ASTM D2240	>20	20 - 40
Adhesion ASTM C794 (7 days @ 75°F/100% RH) Chrome Plated Plastic Acrylic Coated Metal	>20 pli >20 pli	-
Adhesion ASTM C794 (7 days @ 75°F/100% RH) Glass Aluminum Wood	-	>20 pli >20 pli >20 pli
Specific Gravity	1.04 - 1.16	1.00 - 1.05
Extrusion Rate 1/8" orifice	>100g/min (@ 90 psi)	>40g/min (@ 50 psi)
Slump Boeing Jig ASTM D2202	<0.3"	-
Chemical Resistance Novagard Test Method Gasoline Break Fluid Antifreeze Wheel Cleaner	no effect	-
Specifications 400-110 400-118	MSCD135 GMW18180 MSCD135 GM 9985557 GMW18180	-

High Strength Adhesive Pastes

Two-Component High-Performance Fast-Cure Silicone Paste

500-642

With its simple 2:1 fixed ratio, 500-642 is a 2-component industrial adhesive designed for easy handling and with low viscosities to reduce strain on dispensing equipment. This high modulus material offers a strong adhesion profile and is formulated to stand up to harsh conditions for maximum longevity, such as high temperature water immersion testing. With a typical open time of 6 – 9 minutes, 500-642 rapidly builds green strength, allowing parts to move from station to station swiftly in the assembly process. 500-642 bonds securely to a variety of industrial substrates including metals, glass, and polyester paint.

Applications include:
- Bonding of wheel cladding, exterior fixturing, exposed junction boxes, and enclosures

	500-642 (Part A/Part B)
Appearance	Paste, black Paste, off-white
Cure Chemistry	Alkoxy Silicone
Viscosity (cPs) Brookfield HB #6 @ 20 rpm	150,000-400,000 35,000-100,000
Specific Gravity	1.40 - 1.45 1.67 - 1.72
Extrusion Rate 1/8" orifice @ 90 psi	>150g/min >1,000 g/min
Base Ratio by Volume	2:1
Base Ratio by Weight	1.5:1
Mixed Color	black
Mixed Specific Gravity	1.48 - 1.52
Slump Boeing Jig ASTM D2202	<0.1"
Snap Time	5 - 10 min
Tack-Free Time	5 - 20 min
Tensile Strength ASTM D412	175 - 275 psi
Elongation ASTM D412	250 - 350%
Hardness (Shore A) ASTM D2240	45 - 50
Adhesion Pull Tab Adhesion Test Chrome Plated Plastic Acrylic Coated Metal	>80 lbf >80 lbf

Low Adhesion Pastes

Low Adhesion Oxime-Cure Removable Silicone Paste

400-900 / 400-950

400-900 and 400-950 are single-component, moisture-curing silicone pastes that cure to a rubber-like solid and are easily removed. These ready-to-use sealants skin over in 30 – 40 minutes.

The cure mechanism is neutral (oxime), curing on exposure to moisture in room temperature air. These non-flowable, non-sagging low-adhesion pastes are ideal for creating formed-in-place gaskets where re-entry or post production disassembly is necessary. It is non-corrosive to metal substrates such as aluminum and ferrous metals (with adequate ventilation).

400-900 (white)
400-950 (translucent)

Applications include:
- Removable gaskets
- Temporary seals

	400-900 400-950
Appearance	Paste, white or trans.
Cure Chemistry	Oxime Silicone
Viscosity (cPs) Brookfield #7 @ 10 rpm	320,000-550,000 150,000-250,000
Skin-Time 3/8" @ 50% RH & 77°F	30 - 40 min
Through Cure 3/8" @ 50% RH & 77°F	24 hrs
Tensile Strength ASTM D412	200 - 250 psi
Elongation ASTM D412	250 - 350%
Hardness (Shore A) ASTM D2240	40 ± 5
Adhesion ASTM C794 Glass Aluminum Plastics	no bond
Specific Gravity	1.20 - 1.30 1.00 - 1.05

Gasketing Materials

Essential Attributes	800-220* page 16	200-273* page 17	400-195 page 18	800-400 800-401 page 19	400-900 400-950 page 19
	Screen Printable		Pastes		
PHYSICAL PROPERTIES					
Appearance	Fluid, translucent	Fluid, iron oxide red	Paste, translucent	Paste, translucent and opaque	Paste, white and translucent
Cure Chemistry	UV Only Silicone	Oxime Silicone	Oxime Silicone	UV Only Silicone	Oxime Silicone
Viscosity (cPs)	16,500	19,000-24,000	350,000-800,000	360,000	320,000-550,000 150,000-250,000
Skin-Time	-	<60 min	4 - 7 min	-	30 - 40 min
Through Cure	-	-	24 hrs	-	24 hrs
Tensile Strength	128 psi	-	150 - 200 psi	377 psi 100 - 200 psi	200 - 250 psi
Elongation	265%	-	500 - 600%	1,200% 900 - 1,200%	250 - 350%
Hardness (Shore A)	25	-	20 ± 5	20 15 - 25	40 ± 5
Adhesion	-	-	glass, aluminum, wood	-	no bond

*Preliminary data

Looking to properly seal joints to limit vibration, prevent leaks, enhance mounting, and increase throughput? Silicone is an excellent solution for complex formed-in-place (FIPG) or cured-in-place (CIPG) gaskets.

Novagard's high performance silicones are all low VOC, making them better for your manufacturing environment and our planet overall.

Complex gasketing design?
Novagard offers formed-in-place and cured-in-place gasketing possibilities, as well as a UV-cured screen print gasket option. Contact us to solve your challenging gasketing needs.

Screen Printable Gasketing

Screen Printable UV Cure Gasket
800-220

While many gaskets can be dispensed using robotic application techniques, complex gaskets present unique manufacturing challenges. Our 800-220 UV cure silicone is specifically designed to be screen printed, allowing the creation of complex gaskets in a single step. Follow the screen printing process with a dose of UV energy, and the gasket will be fully cured and ready for further processing. Use 800-220 for high-speed manufacturing involving complex gasketing requirements.

Applications include:
- Industrial water filtration manufacturing
- Complex shape gaskets

Two approaches to gasketing

CIPG: Adheres to one side of substrate

FIPG: Adheres to both sides of substrate

CIPG (Cured-in-Place Gasket) provides greater gasket design flexibility and allows the opening and closing of lids to repair components inside.

FIPG (Formed-in-Place Gasket) adheres to both substrates, ideal for non-reenterable enclosures.

800-220	
Appearance	Fluid, translucent
Cure Chemistry	UV Only Silicone
Viscosity (cPs) Brookfield #7 @ 10 rpm	16,500
Tensile Strength ASTM D412	128 psi
Elongation ASTM D412	265%
Hardness (Shore A) ASTM D2240	25
Specific Gravity	0.98
Dielectric Strength ASTM D149 10 mil gap	>13 kV/mm
Dielectric Constant (100Hz) ASTM D150	1.46
Dielectric Constant (100kHz) ASTM D150	1.46
Dissipation Factor (100Hz) ASTM D150	0.0024
Dissipation Factor (100kHz) ASTM D150	0.0008
Volume Resistivity ASTM D257	$1.24x10^{14}$ Ω-cm

Preliminary data. Full data set expected in late 2023. Lab samples are currently available.

Screen Printable Engine Gasket
200-273

Designed to simplify the creation of complex gaskets, 200-273 is a single component, moisture cure oxime silicone. Formulated with industry standard iron oxide red pigmentation for rapid identification of gasketing surface and defect monitoring, 200-273 simplifies the curing process by utilizing atmospheric moisture – no other processing or treatment required. 200-273 offers good adhesion to allow the newly printed gasket to remain firmly in place until the next assembly step.

Applications include:
- Engine gaskets
- High stress gasketing applications

200-273	
Appearance	Fluid, iron oxide red
Cure Chemistry	Oxime Silicone
Viscosity (cPs) Brookfield #6 @ 10 rpm	19,000-24,000
Skin-Time 50% RH & 77°F	<60 min

Preliminary data. Full data set expected in 2024.

Fast-Cure Oxime-Cure Silicone Paste

400-195

400-195 is a non-flowable, non-sagging paste that provides a fast tack free time and high green strength. The fast tack and early strength combine to hold the assembly together as a unit moves from station to station, outperforming slower materials in multi-step assembly applications.

The cure mechanism is neutral (oxime), curing on exposure to moisture in room temperature air. It is non-corrosive to metal substrates such as aluminum and ferrous metals (with adequate ventilation), and offers excellent adhesion to numerous substrates including metals and plastics. This smooth paste cures to a low to medium modulus, rubber-like solid, and is ideal for applications that require superior bond strength and moisture resistance.

This translucent paste can serve as a drop-in replacement for DOWSIL™ 737 Neutral Cure Sealant.

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

Lighten up your automotive application
By injecting 400-195 with nitrogen, manufacturers are extending the coverage of each ounce of silicone while reducing the weight by up to 50%. Spec'd for use in GM 9985557 and GMW18180.

	400-195
Appearance	Paste, translucent
Cure Chemistry	Oxime Silicone
Viscosity (cPs) Brookfield #7 @ 10 rpm	350,000-800,000
Skin-Time 3/8" @ 50% RH & 77°F	4 - 7 min
Through Cure 3/8" @ 50% RH & 77°F	24 hrs
Tensile Strength ASTM D412	150 - 200 psi
Elongation ASTM D412	500 - 600%
Hardness (Shore A) ASTM D2240	20 ± 5
Adhesion ASTM C794 Glass Aluminum Wood	12 - 15 pli 10 - 14 pli 12 - 15 pli
Specific Gravity	1.00 - 1.05
Tear Resistance ASTM D624	30 - 35 pli
Dielectric Strength ASTM D149	>27.9 kV/mm (708 V/mil)
Volume Resistivity ASTM D257	1.5x10^{15} Ω-cm
Specifications	GM 9985557 GMW18180

UV Cure Silicone Paste

800-400 / 800-401

With typical viscosity of 360,000 cPs, 800-400 and 800-401 are UV-only, fast-curing pastes that consistently hold their shape even when dispensed into complex patterns. With its nearly instant UV cure, these are widely used for automated dispensing and cured-in-place gaskets (CIPG). These non-corrosive, single component silicones offer a room temperature cure in seconds upon exposure to ultraviolet (UV) light.

100% solids with no solvents, both are thermally stable from -40°F to 392°F (-40°C to 200°C). These materials will cure a 1/2" bead with a Mercury H bulb, or a 3/4" bead with a 365nm LED bulb. They can be applied by automated needle dispense, jetting, or hand dispense.

800-400 (non-adhesive)
800-401 (adheres to plastic)

Applications include:
- Printed circuit/wiring boards
- Flexible hybrid electronics
- Rigid electronics
- Sensitive components in harsh environments
- Gasketing and sealing

Low Adhesion Oxime-Cure Removable Silicone Paste

400-900 / 400-950

400-900 and 400-950 are single-component, moisture-curing silicone pastes that cure to a rubber-like solid and are easily removed. These ready-to-use sealants skin over in 30 – 40 minutes.

The cure mechanism is neutral (oxime), curing on exposure to moisture in room temperature air. These non-flowable, non-sagging low-adhesion pastes are ideal for creating formed-in-place gaskets where re-entry or post production disassembly is necessary. It is non-corrosive to metal substrates such as aluminum and ferrous metals (with adequate ventilation).

400-900 (white)
400-950 (translucent)

Applications include:
- Removable seals
- Temporary seals

	800-400 800-401	400-900 400-950
Appearance	Paste, translucent and opaque	Paste, white and translucent
Cure Chemistry	UV Only Silicone	Oxime Silicone
Viscosity (cPs) Brookfield #7 @ 10 rpm	360,000 Brookfield #6 @ 10 rpm	320,000-550,000 150,000-250,000
Skin-Time 3/8" @ 50% RH & 77°F	-	30 - 40 min
Through Cure 3/8" @ 50% RH & 77°F	-	24 hrs
Tensile Strength ASTM D412	377 psi 100 - 200 psi	200 - 250 psi
Elongation ASTM D412	1,200% 900 - 1,200%	250 - 350%
Hardness (Shore A) ASTM D2240	20 15 - 25	40 ± 5
Adhesion ASTM C794 Glass Aluminum Plastics	-	no bond
Specific Gravity	1.11 1.05 - 1.20	1.20 - 1.30 1.00 - 1.05
Extrusion Rate 1/8" orifice @ 50 psi	>240 g/ min	-
Dielectric Strength ASTM D149	14.9 kV/mm (378 V/mil) -	-
Dielectric Constant (100Hz) ASTM D150	3.34 -	-
Dielectric Constant (100kHz) ASTM D150	3.33 -	-
Dissipation Factor (100Hz) ASTM D150	0.0011 -	-
Dissipation Factor (100kHz) ASTM D150	0.0021 -	-
Volume Resistivity ASTM D257	3.01 x10^{13} Ω-cm	-

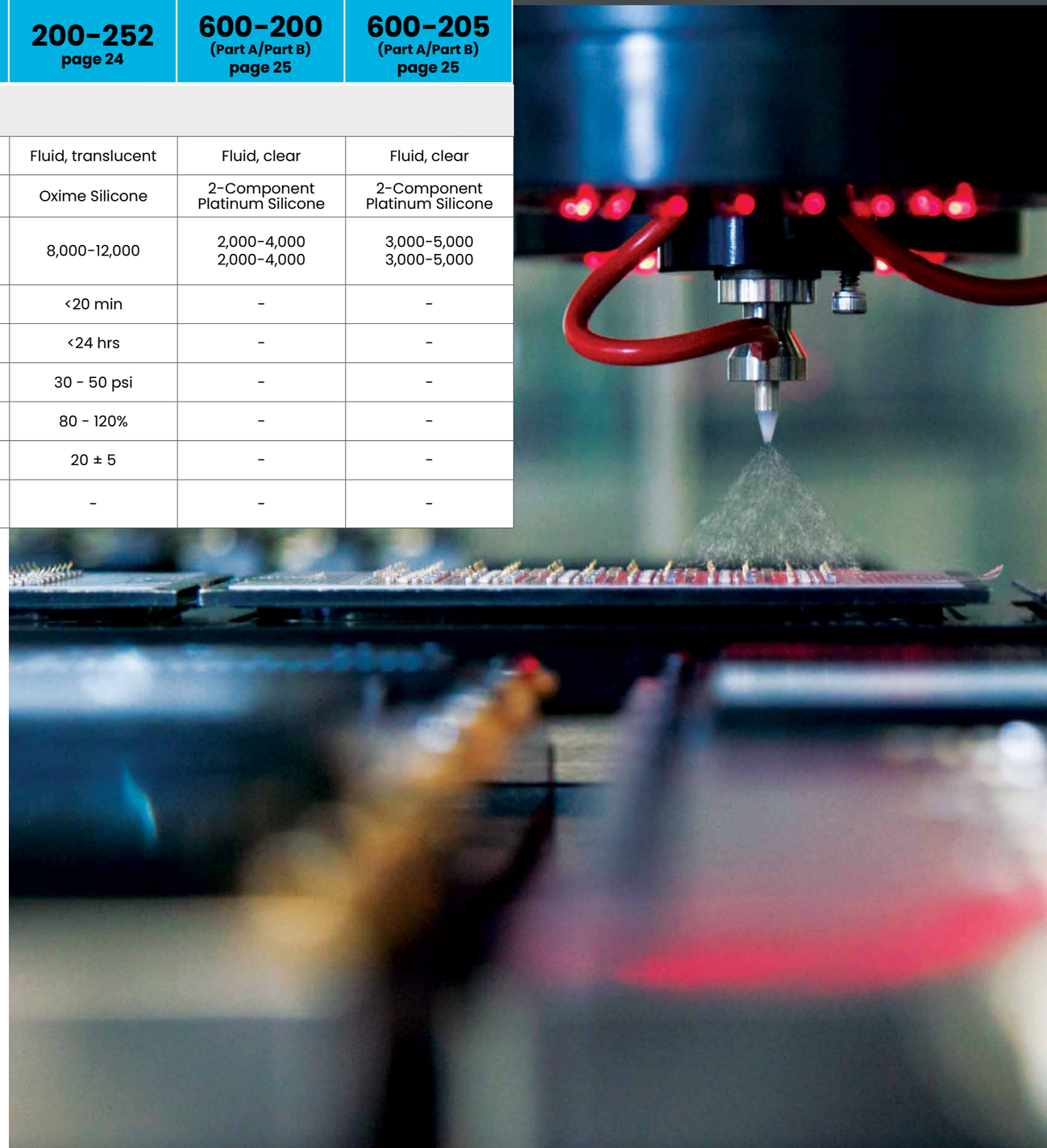
Protective Coatings & Sealants

Essential Attributes	200-202 page 22	200-257 page 22	200-107 page 23	900-92x* page 23	900-212* page 24	200-252 page 24	600-200 (Part A/Part B) page 25	600-205 (Part A/Part B) page 25
PHYSICAL PROPERTIES								
Appearance	Fluid, black	Fluid, translucent	Fluid, white	Fluid, black, gray, white	Paste, black	Fluid, translucent	Fluid, clear	Fluid, clear
Cure Chemistry	Oxime Silicone	Oxime Silicone	Oxime Silicone	Alkoxy Hybrid	Alkoxy Hybrid	Oxime Silicone	2-Component Platinum Silicone	2-Component Platinum Silicone
Viscosity (cPs)	20,000-35,000	70,000-110,000	70,000-110,000 (@20 rpm) 90,000-120,000 (@10 rpm)	-	838,000 (1Hz) 187,500 (5Hz) 97,000 (10Hz)	8,000-12,000	2,000-4,000 2,000-4,000	3,000-5,000 3,000-5,000
Skin-Time	<20 min	<20 min	<30 min	10 - 25 min	<50 min	<20 min	-	-
Through Cure	57 - 63 hrs	57 - 63 hrs	24 - 30 hrs	7 days	7 days	<24 hrs	-	-
Tensile Strength	50 - 100 psi	50 - 100 psi	200 psi	175 - 225 psi	-	30 - 50 psi	-	-
Elongation	245 - 300%	245 - 300%	250%	250 - 300%	-	80 - 120%	-	-
Hardness (Shore A)	15 ± 5	15 ± 5	25 ± 5	45 ± 5	46	20 ± 5	-	-
Adhesion	-	-	glass, aluminum	glass, aluminum, wood, PVC	-	-	-	-

*Preliminary data

Whether it's a delicate circuit board, the sturdy steel joint on the frame of an RV, or the fabric of a stitched seam, applying the right material to protect it is essential.

Novagard offers you advanced silicone-based solutions developed by our R&D center of excellence. Our scientists are focused on innovative and eco-friendly products that meet your needs and fit seamlessly into your manufacturing process.



Oxime-Cure Self-Leveling Silicone (Mil Spec)

200-202

200-202 is a single-component, conformal coating that is preferable to paste-consistency products where flow coating is the chosen application method and when flow into small crevices and hard-to-reach places is desired. It utilizes a moisture cure system at room temperature to result in a tough, resilient, silicone rubber that has good adhesion to most common industrial substrates, and will not corrode aluminum and ferrous metals (with adequate ventilation).

This oxime-cured silicone has a viscosity of 20,000 – 35,000 cPs and skins over in less than 20 minutes.

Applications include:

- Coating intricate electrical and mechanical devices
- Insulating electrical terminals
- Pin/solder joint coverage
- Thin section potting/encapsulation
- Sealing and bonding applications where low viscosity and self-leveling properties are required

Oxime-Cure Semi-Flowable Silicone

200-257

200-257 is a single-component, oxime-cure silicone for use in applications where the coating needs to settle into small crevices and hard to reach areas. 200-257 utilizes a moisture cure system at room temperature to result in a tough, resilient, silicone rubber that retains enough thixotropy to prevent leakage during the cure cycle.

200-257 has a viscosity of 70,000 – 110,000 cPs and skins over in less than 20 minutes. This semi-flowable silicone's gap-filling properties offer superior quality and long-term durability, particularly upon exposure to hostile environmental conditions.

Applications include:

- Coating intricate electrical and mechanical devices
- Insulating electrical terminals
- Pin/solder joint coverage
- Thin section potting/encapsulation and sealing
- Bonding applications where low viscosity and self-leveling properties are required
- Can be used as a low-profile dam in dam-and-fill applications

	200-202	200-257
Appearance	Fluid, black	Fluid, translucent
Cure Chemistry	Oxime Silicone	Oxime Silicone
Viscosity (cPs) Brookfield #6 @ 10 rpm	20,000-35,000	70,000-110,000
Skin-Time 3/8" @ 50% RH & 77°F	<20 min	<20 min
Through Cure 3/8" @ 50% RH & 77°F	57 - 63 hrs	57 - 63 hrs
Tensile Strength ASTM D412	50 - 100 psi	50 - 100 psi
Elongation ASTM D412	245 - 300%	245 - 300%
Hardness (Shore A) ASTM D2240	15 ± 5	15 ± 5
Specific Gravity	0.95 - 1.01	0.95 - 1.01
Dielectric Strength ASTM D149	17.5 kV/mm (446 V/mil)	-
Dielectric Constant (100Hz) ASTM D150	2.72	-
Dielectric Constant (100kHz) ASTM D150	2.70	-
Dissipation Factor (100Hz) ASTM D150	0.0034	-
Dissipation Factor (100kHz) ASTM D150	0.0021	-
Volume Resistivity ASTM D257	5.74×10^{12} Ω-cm (20V) 2.92×10^{13} Ω-cm (100V)	-

Oxime-Cure Semi-Flowable Silicone

200-107

200-107 is a single-component, oxime-cure silicone for use in applications where the coating needs to settle into small crevices and hard to reach areas while maintaining consistency.

200-107 has a viscosity of 70,000 – 120,000 cPs, and skins over in less than 30 minutes. This semi-flowable silicone's gap-filling properties offer superior quality and long-term durability, particularly upon exposure to hostile environmental conditions.

Applications include:

- Coating intricate electrical and mechanical devices
- Insulating electrical terminals
- Pin/solder joint coverage
- Thin section potting/encapsulation
- Sealing and bonding applications where low viscosity and self-leveling properties are required

Semi Self-Leveling Silicone-Free Hybrid

900-92x

A single component, silicone-free, semi self-leveling hybrid sealant, 900-92x is designed for sealing roofing components and mechanically fixed joints, typically for vehicles like RVs and buses. It can also be used as a body-in-white sealant. 900-92x offers a controlled flow into joints and cracks to provide a durable protective seal while moving and flexing with the substrate. This hybrid is paintable after 1 hour.

Applications include:

- Roof sealing of RVs, buses, trailers, and other road and off-road vehicles

	200-107	900-92x
Appearance	Fluid, white	Fluid, black, gray, white
Cure Chemistry	Oxime Silicone	Alkoxy Hybrid
Viscosity (cPs) Brookfield #7 @ 20 rpm Brookfield #7 @ 10 rpm	70,000-110,000 90,000-120,000	-
Skin-Time 3/8" @ 50% RH & 77°F	<30 min	10 - 25 min
Through Cure 3/8" @ 50% RH & 77°F	24 - 30 hrs	7 days
Tensile Strength ASTM D412	200 psi	175 - 225 psi
Elongation ASTM D412	250%	250 - 300%
Hardness (Shore A) ASTM D2240	25 ± 5	45 ± 5
Adhesion ASTM C794 Glass Aluminum Wood PVC	>15 pli >15 pli - -	13 pli 15 pli 15 pli 14 pli
Specific Gravity	1.10 - 1.20	1.45 - 1.55
UV Exposure ASTM G154 (2,000 hours UV- A)	-	pass

Preliminary data. Full commercial availability expected in 2024. Lab samples are currently available.

Sprayable Silicone-Free Hybrid

900-212

COMING SOON

Our R&D scientists are currently developing a sprayable hybrid that adheres to both primed and unprimed surfaces. For use in automotive applications, this sprayable seam sealer will duplicate the look and function of OEM textured or swirled sealers, wheelhouse coatings, and sound dampening materials. This new paintable hybrid is expected to be commercially available in 2024. Ask your sales representative for more information or for sample materials.

Flowable Silicone Waterproofing Seam Sealer

200-252

200-252 is a single component, low viscosity, highly flowable silicone sealant. It easily flows into small spaces, providing a flexible, robust waterproofing of finished components. Maintains sufficient thixotropy so as to remain in place during cure (no drop-outs). Skins quickly to avoid mess, fully cured in 24 hours. Waterproof formula works well and maintains flexibility in extreme temperatures, filling voids and irregularities so that water can run off easily.

Applications include:

- Sealing and waterproofing stitched seams in outdoor products such as tents
- Sealing and waterproofing the seams of engineered fabric buildings and other semi-permanent structures

	900-212	200-252
Appearance	Paste, black	Fluid, translucent
Cure Chemistry	Alkoxy Hybrid	Oxime Silicone
Viscosity (cPs) Brookfield #2 @ 10 rpm	-	8,000-12,000
Viscosity (cPs) ASTM D4440 1Hz 5Hz 10Hz	838,000 187,500 97,000	-
Skin-Time 3/8" @ 50% RH & 77°F	<50 min	<20 min
Through Cure 3/8" @ 50% RH & 77°F	7 days	<24 hrs
Tensile Strength ASTM D412	-	30 - 50 psi
Elongation ASTM D412	-	80 - 120%
Hardness (Shore A) ASTM D2240	46	20 ± 5
Specific Gravity	1.2 - 1.3	0.95 - 1.01
Extrusion Rate ASTM C1183 @ 90 psi	500 - 1,000 g	-
Slump Boeing Jig ASTM D2202	<0.3"	-
Service Temp	-40°F to 392°F (-40°C to 200°C)	-

Preliminary data.
Full data set expected in 2024.

Addition Cure Silicone

(2-part sealant)

600-200 / 600-205

600-200 and 600-205 are two-component, addition-cure silicones that, when mixed, cure to a soft, self-adhering flexible gel. These materials are often used for deep section cure applications.

They offer exceptionally fast cure times, convenient mix ratios, are solvent free, and non-corrosive. These materials ship in separate containers that are labeled Part A and Part B. These products are mix ratio sensitive and require accurate metering (1 part A: 1 part B v/v).

	600-200 (Part A/Part B)	600-205 (Part A/Part B)
Appearance	Fluid, clear	Fluid, clear
Cure Chemistry	2-Component Platinum Silicone	2-Component Platinum Silicone
Viscosity (cPs) Brookfield #5 @ 20 rpm	2,000-4,000 2,000-4,000	3,000-5,000 3,000-5,000
Specific Gravity	0.95 - 1.05	0.95 - 1.05
Service Temp	-40°F to 400°F (-40°C to 204°C)	-40°F to 400°F (-40°C to 204°C)
Mix Ratio v/v	1:1	1:1
Working Time	<15 min	3 - 5 min
Penetration Novagard Test Method After cure, 7 days @ 25°C/50% RH	4.0 - 4.3 mm	4.0 - 5.0 mm
Pull Novagard Test Method After cure, 7 days @ 25°C/50% RH	3.5 - 4.75"	-

600-200 (working time of <15 minutes, and a cure time of 2-3 hours after mixing)
600-205 (working time of 3 – 5 minutes after mixing)

Applications include:

- General potting and encapsulation
- Junction box enclosures
- Clam shell connectors
- Cable splice kits
- Waterproof connectors and sensors
- Electrical insulation
- Amplifiers and relays

Greases & Lubricants

Silicone Greases

Lithium soap thickened greases to reduce friction and wear under loads, slow speeds, and variable environmental conditions.

G321
Ultra-low operating temperature
Meets spec CID A-A-59173 Type II (formerly Mil-G-46886B)
Temp: -99°F to 399°F (-73°C to 204°C)

G322L
Outstanding corrosion protection
Temp: -67°F to 302°F (-55°C to 150°C)

G326
Enhanced corrosion protection
Temp: -67°F to 302°F (-55°C to 150°C)

G330M
General purpose lubricant
Temp: -67°F to 302°F (-55°C to 150°C)

G351
Oxidation and radiation resistant
Meets spec Mil-L-15719A
Temp: -99°F to 399°F (-73°C to 204°C)

General Purpose/ Dielectric Compounds

Silicones thickened with inorganic fillers provide lubrication and insulation, and are resistant to oxidation and thermal degradation.

G624
Superior dielectric strength
Meets spec SAEAS-8660 (formerly Mil-S-8660C)
Temp: -40°F to 401°F (-40°C to 205°C)

G635
Lower operating temperatures
Temp: -71°F to 392°F (-57°C to 200°C)

G661
Seals and protects electrical connections above and below ground; excellent plastic and rubber lubricant
Temp: -40°F to 401°F (-40°C to 205°C)

G662
Certified to NSF Standard 61 for drinking water system components
Temp: -40°F to 401°F (-40°C to 205°C)

G687
Ideal for high voltage insulators to prevent flashover
Temp: -40°F to 401°F (-40°C to 205°C)

G697
Inhibitor fights galvanic corrosion
Meets spec Mil-C-21567C
Temp: -67°F to 302°F (-55°C to 150°C)

Thermally Conductive Compounds

Non-curing materials offering excellent heat transfer in large and small electrical and electronic components. Our thermally conductive compounds provide cost effective thermal management in a wide variety of applications.

G641
Ideal for thermocouple wells, power diodes, transistors, semiconductors, and ballasts
TC=0.7 W/mK
Temp: -40°F to 401°F (-40°C to 205°C)

G644
A softer and lower viscosity version of G641
TC=0.7 W/mK
Temp: -40°F to 401°F (-40°C to 205°C)

Tough conditions need silicone-based lubricants. Silicone's unique properties work in extreme environments to offer a longer service life. Within a wide operating temperature range, these greases maintain consistency without smoking, melting, or charring. They are non-corrosive, chemically inert, and compatible with plastic and most organics.

Silicone greases may be wiped on, brushed on, dispensed from a grease gun, or applied by automated equipment. When dispensed in a non-polar solvent, they may be applied by brushing, spraying, or dip coating (caution is required when selecting solvents).

		G321	G322L	G326	G330M	G351	G624	G635	G661	G662	G687	G697	G641	G644
ATTRIBUTES	offset	DC33 DC55				DC44	DC4	DC5	DC111	DC111	HV3099		DC340	DC340
	oxidation resistant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	water resistant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	non-polar solvent soluble	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	dielectric	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	corrosion protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	galvanic corrosion inhibitors		✓	✓								✓		
	vacuum resistant						✓		✓	✓	✓	✓		
	radiation resistant	✓				✓								
APPLICATIONS	metal to metal	✓	✓	✓	✓	✓								
	aluminum lubrication		✓	✓	✓									
	ball bearings	✓	✓	✓	✓	✓								
	roller & sleeve bearings		✓	✓	✓									
	chassis lubrication		✓	✓	✓		✓		✓					
	high temp chains/ gears/linkages		✓	✓	✓									
	swivel joints		✓	✓	✓									
	light & medium loads	✓	✓	✓	✓	✓								
	low speed/movement	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	thread protector						✓		✓	✓	✓	✓		
	metal to rubber/ metal to plastic	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		
	rubber to plastic				✓		✓		✓	✓	✓	✓		
	low & high temp operation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	electrical insulators & connectors						✓	✓	✓		✓			
	telecommunication connectors						✓		✓					
	relays & switches		✓	✓			✓		✓			✓		
	conveyors & well drilling		✓	✓	✓									

Clean up with non-polar solvents such as mineral spirits. They are soluble in Stoddard solvents, toluene, and xylene. 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 solutions (e.g. sodium or potassium hydroxides), nitrates, or peroxides. Novagard silicone greases and compounds are not recommended for bearings with a D/N ratio exceeding 200,000. D/N ratio is calculated by multiplying the diameter (mm) times the bearing speed (rpm).

Best-in-Class R&D

Combine 35 years of silicone expertise with a $30 million investment in research, facility, people, and processes, and innovative manufacturing solutions are sure to follow.

Formulated to succeed

Our scientists work best when armed with raw materials that meet our high standards and equipment that allows them to identify, analyze, quantify, and qualify. With 100+ variations of tests available that measure every aspect of a material, we will go to any length to assure that each innovative product we produce performs to your exacting specifications.

Aged to perfection

Even in a lab stocked with the newest, most advanced, intricate testing equipment, that trusty old oven is still a time tested favorite. We use it to subject our silicones to the harshest of environments in the shortest amount of time. We simulate the aging process to evaluate and assure the shelf life and long term performance of the materials you trust to protect your product.

Listen, learn, *then* innovate

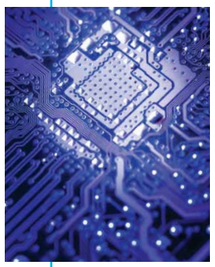
All the best lab equipment being used by the smartest silicone engineers in the world won't make a difference unless there is absolute clarity as to what the silicone material needs to do, where is needs to do it, and why. And that's why any project must start with a meeting of the minds—yours and ours.

Clean and Green

Low odor, solvent free, no harmful VOC emissions or outgassing, no isocyanates, PFAS free - regardless of the industry, Novagard's products provide exceptional performance AND are eco-friendly. Helping you best meet your responsibilities to your customers, your co-workers, and our planet.

World Class Products

In addition to the products offered in this catalog, Novagard manufactures silicone sealants, coatings, and PVC foams for a wide variety of markets.



Building Systems Silicones & Hybrids

We manufacture a complete line of professional grade one-part, two-part, and hybrid silicone sealants designed to meet the needs of window, door, siding, and metal roof manufacturers, dealers, building material wholesalers, and contractors. Novagard silicone sealants and adhesives are permanently flexible, solvent-free, impervious to UV light, and adhere without primers to most common building substrates.

Within the OEM window manufacturing sector, our products meet or surpass all industry standards for window and door fabrication applications. Window and Door manufacturers trust our AAMA/FGIA-approved formulations for their high tensile strength, quick cure rates, and excellent adhesion to most substrates.

For the construction industry, we offer a complete line of sealants and mastics for roofing installations and maintenance. Our products are easily gunned at all temperatures, VOC compliant in all 50 states, and available in all major siding, trim coil, window, and metal roof manufacturer colors.

Electronics Grade Silicones

When a non-corrosive product is required, we offer unprimed adhesive solutions that provide excellent insulation properties, vibration damping, and barrier protection against weather and other intrusions in electronics applications. Novagard's electronics grade alkoxy sealants combine increased flexibility and high temperature resistance, allowing you more versatility in the design and assembly process. Our silicones reliably seal, bond, coat, gasket, and encapsulate to protect sensitive components and modules, increase the reliability, and extend the useful life of your product.

PVC Foam

We manufacture PVC foam in a variety of colors, densities, and dimensions to meet the ever-growing needs of our customers in the transportation, HVAC, appliance, automotive, and healthcare industries. Our foams cushion against shock and vibration, and its closed cell structure seals out light, air, dust, and moisture. Foam Seal foams are sulfur free, low VOC, and certified Prop 65 compliant.

Learn more about everything Novagard can do for you

Our **innovative** labs produce an **extensive** line of quality products.

NOVAGARD®

Engineering high performance and sustainable solutions today for the needs and challenges of tomorrow.

We do so with respect for our people, our customers, our supplier partners, our community, and our environment.

Featured Products

MADE IN THE USA

5109 Hamilton Avenue, Cleveland, OH 44114 USA
(216) 881-8111 | (800) 380-0138 | (216) 881-6977 fax | novagard.com

ISO 9001:2015 QMS (with design), IATF 16949:2016 QMS (with design) | Certified Women's Business Enterprise

Effective Date: Sept 2023-2.4