

XIAMETER™ Sealants

Product technical data/Selection guide (for Asia)

When you're looking for a reliable silicone sealant or polymer that will help you stay cost-competitive, XIAMETER™ is the way to go.

In the XIAMETER™ product line, you'll find a range of commonly used silicone sealants and sealant polymers to meet your specific performance requirements.

With XIAMETER™ from Dow, you get:

- High-quality silicone sealants and sealant polymers at competitive, market-driven prices
- Products available around the globe that are locally made, locally sold to meet formulation preferences
- Reliable, proven performance
- Flexible buying options that let you adjust to changing needs for value, security and convenience

Sealant chemistry

XIAMETER™ sealants are room-temperature-vulcanizing (RTV) silicone sealants. The condensation cure occurs at room temperature upon exposure to moisture in air.

Acetoxy-cure chemistry produces an acetic acid by-product, which smells like vinegar and is corrosive to some metals, including brass and copper. Oxime-cure chemistry produces a nonacidic by-product.

Silicone advantages

Select the right sealant and make the most of the advantages of silicones over organic competitors.

- Silicone sealants outperform and outlast organic weatherproofing sealants.
- Silicone sealants have greater UV stability and temperature and weather resistance than organic sealants.
- Silicone sealants are inherently waterproof.
- Silicone sealants remain flexible over a wide temperature range (-40 to 150°C) and are easy to apply in cold weather.
- Silicone sealants last longer and need to be replaced less often than many organic sealants, which reduces lifetime costs and contributes to sustainability.

Acetoxy silicone sealants

Type

Acetoxy-cure, one-component, RTV silicone sealants

Special properties

- One-component adhesive/sealant for ease of use
- Good adhesion to glass
- Cures to a tough, flexible silicone elastomer
- Resistant to ozone, ultraviolet (UV) radiation and temperature extremes (-40 to 150°C)

Potential applications

- Industrial sealing and bonding
- Waterproofing rimless sinks
- Sealing around shower-tub enclosures, sinks, urinals and whirlpools
- General sealing and caulking applications

Oxime silicone sealants

Type

Oxime-cure, one-component, RTV silicone sealants

Special properties

- One-component adhesive/sealant for ease of use
- Cures to a tough, flexible silicone elastomer
- Nonacidic cure enables use on a variety of substrates (glass, metals, plastics)
- Resistant to ozone, ultraviolet (UV) radiation and temperature extremes (-40 to 150°C)

Potential applications

- General-purpose sealing and bonding
- Space-filling rubber adhesive
- Caulking and sealing window and door frames, siding, trim, skylights, gutters, vents, and pipes
- Sealing to some plastics and vinyls

Product information

Product name	Composition	Typical applications	Available colors
XIAMETER™ SLT-5060 Sealant Acetoxy	100% silicone multipurpose silicone sealant; one-component; RTV	A wide variety of industrial sealing and adhesive applications; diverse sealing and bonding applications, such as space-filling rubber adhesive	Clear
XIAMETER™ SLT-5160 Sealant Acetoxy	100% silicone multipurpose silicone sealant; one-component; RTV	A wide variety of industrial sealing and adhesive applications; diverse sealing and bonding applications, such as space-filling rubber adhesive	Aluminum, black, bronze, clear, gray, red, white
XIAMETER™ SLT-5168 Sealant Acetoxy	100% silicone multipurpose silicone sealant; one-component; RTV	A wide variety of industrial sealing and adhesive applications; diverse sealing and bonding applications; Good primerless adhesion for various substrates	Clear, black, white, aluminum
XIAMETER™ SLT-5260 Sealant Acetoxy	Multipurpose silicone sealant; one-component; RTV	A wide variety of industrial sealing and adhesive applications; diverse sealing and bonding applications, such as space-filling rubber adhesive	Aluminum, black, bronze, clear, gray, white, red
XIAMETER™ SRS-5260 Silicone Rubber			Aluminum, black, bronze, clear, gray, white, red, blue
XIAMETER™ SLT-5261 Sealant Acetoxy	Silicone sealant with fungicide; one-component; RTV	Suitable for sanitary or other construction sealing applications where mildew resistance of the cured sealant is required	Clear, white
XIAMETER™ SRS-5261 Silicone Rubber			
XIAMETER™ SLT-5460 Sealant Acetoxy Extended	Extended acetoxy silicone sealant; one-component; moisture-cure RTV	A wide variety of industrial sealing and adhesive applications; diverse sealing and bonding applications, such as space-filling rubber adhesive	Aluminum, black, bronze, clear, dark black, gray, light gray, white
XIAMETER™ SRS-5460 Silicone Rubber			Aluminum, black, bronze, clear, gray, light gray, white
XIAMETER™ SLT-5461 Sealant Acetoxy Extended	Extended acetoxy silicone sealant with fungicide; one-component; moisture-cure RTV	Suitable for sanitary or other construction sealing applications where mildew resistance of the cured sealant is required	Clear, white
XIAMETER™ SRS-5461 Silicone Rubber			
XIAMETER™ SLT-7060 Sealant Oxime	One-component; RTV silicone sealant	General-purpose sealing and bonding agent as a space-filling rubber adhesive	Aluminum, bright black, translucent
XIAMETER™ SRS-7060 Silicone Rubber			Translucent
XIAMETER™ SLT-7070 Sealant Oxime*	One-component; RTV silicone sealant	General-purpose sealing and bonding agent as a space-filling rubber adhesive	Black, clear, gray, light gray 2, white
XIAMETER™ SLT-7071 Sealant Oxime*	One-component; RTV silicone sealant with fungicide	Suitable for sanitary or other construction sealing applications where mildew resistance of the cured sealant is required	Clear, white, gray, ivory, new ivory
XIAMETER™ SLT-7160 Sealant Oxime	One-component; RTV silicone sealant	General-purpose sealing and bonding agent as a space-filling rubber adhesive	Aluminum, black, brown red, bronze, light gray, white, red, translucent
XIAMETER™ SRS-7160 Silicone Rubber			Aluminum, black, bronze, cream white, dark green, red, translucent, white
XIAMETER™ SLT-7161 Sealant Oxime	One-component; RTV silicone sealant with fungicide	Suitable for sanitary or other construction sealing applications where mildew resistance of the cured sealant is required	Ivory, translucent, white
XIAMETER™ SRS-7161 Silicone Rubber			Cream white, cream, ivory, translucent, white
XIAMETER™ SLT-7260 Sealant Oxime Extended	Extended oxime silicone sealant; one-component; RTV silicone sealant	General-purpose sealing and bonding agent as a space-filling rubber adhesive	Translucent, aluminum, black, red, white, gold, light gray
XIAMETER™ SRS-7260 Silicone Rubber			Aluminum, black, bronze, light gray, silver gray, translucent, white
XIAMETER™ SLT-7261 Sealant Oxime Extended	Extended oxime silicone sealant with fungicide; one-component; RTV silicone sealant	Suitable for sanitary or other construction sealing applications where mildew resistance of the cured sealant is required	Translucent, white
XIAMETER™ SRS-7261 Silicone Rubber			
XIAMETER™ SLT-7460 Sealant Oxime	One-component; RTV silicone sealant	General-purpose sealing and bonding agent as a space-filling rubber adhesive	Black, coal black, dark bronze, gray, light gray, natural white, off white, sandstone, white
XIAMETER™ SRS-7460 Silicone Rubber			Black, bronze, coal black, gray, light gray, white
XIAMETER™ SLT-7560 Sealant Oxime Extended	Extended oxime silicone sealant; one-component; RTV silicone sealant	General-purpose sealing and bonding agent as a space-filling rubber adhesive	Black, bronze, gray, white, cherry, dark bronze, dark green, ivory, wood

Typical properties

Specification Writers: Please contact your local XIAMETER™ sales office before writing specifications on these products.

	Tack-free Time	Flow (MIL S8802 JIG†)	Extrusion rate	In-depth cure at 25°C	Durometer, Shore A	Denisty	Elongation at break	Tensile strength at break	
Product Name	Unit	min	mm	g/min	mm/day	-	g/cm ³	%	MPa
XIAMETER™ SLT-5060 Sealant Acetoxy		-	-	-	-	-	-	-	-
XIAMETER™ SLT-5160 Sealant Acetoxy		11	<2	369	3.2	34	1.02	450	2.1
XIAMETER™ SLT-5168 Sealant Acetoxy		12	<2	274	-	24	-	575	2.6
XIAMETER™ SLT-5260 Sealant Acetoxy		11	<2	384	1.9	29	1.01	400	1.8
XIAMETER™ SRS-5260 Silicone Rubber									
XIAMETER™ SLT-5261 Sealant Acetoxy		10	-	310	-	29	-	400	1.8
XIAMETER™ SRS-5261 Silicone Rubber									
XIAMETER™ SLT-5460 Sealant Acetoxy Extended		11	<2	779	1.6	17	0.98	550	1.4
XIAMETER™ SRS-5460 Silicone Rubber									
XIAMETER™ SLT-5461 Sealant Acetoxy		-	-	768	-	-	-	-	-
XIAMETER™ SRS-5461 Silicone Rubber									
XIAMETER™ SLT-7060 Sealant Oxime		22	<2	245	2.1	24	1.02	550	1.7
XIAMETER™ SRS-7060 Silicone Rubber									
XIAMETER™ SLT-7070 Sealant Oxime		14	<2	437	2.6	23	1.03	600	1.9
XIAMETER™ SLT-7071 Sealant Oxime		-	-	-	-	-	-	-	-
XIAMETER™ SLT-7160 Sealant Oxime		17	<2	287	2.1	21	1.02	400	1.5
XIAMETER™ SRS-7160 Silicone Rubber									
XIAMETER™ SLT-7161 Sealant Oxime		17	<2	320	-	24	-	450	1.4
XIAMETER™ SRS-7161 Silicone Rubber									
XIAMETER™ SLT-7260 Sealant Oxime Extended		19	<2	540	1.7	25	0.99	400	1.2
XIAMETER™ SRS-7260 Silicone Rubber									
XIAMETER™ SLT-7261 Sealant Oxime Extended		18	<2	476	1.8	-	-	500	1.1
XIAMETER™ SRS-7261 Silicone Rubber									
XIAMETER™ SLT-7460 Sealant Oxime		12	<2	409	1.8	38	1.39	450	1.2
XIAMETER™ SRS-7460 Silicone Rubber									
XIAMETER™ SLT-7560 Sealant Oxime Extended		13	<2	539	1.5	38	1.42	350	1

† Test standard and method

Storage and shelf life

Shelf life is indicated by the “Use By” date found on the product label.

Limitations

- Do not use for structural glazing.
- Not recommended for continuous water immersion applications.
- Not recommended for use with marble and similar highly porous stone finishes whose appearance may be affected by sealant.
- Acetoxy sealant is not recommended for use on materials where the cure by-product (acetic acid vapor) may cause corrosion or discoloration or where the sealant may affect their appearance (e.g. galvanized iron, copper, brass, zinc-coated steel and other metals; or concrete, cement, brick, limestone, marble and similar highly porous stone finishes).
- Oxime sealant may discolor copper and brass.
- Not recommended for joints where movement exceeds $\pm 15\%$.
- Not recommended for use in below-ground joints or trafficable joints where abrasion and physical abuse are encountered.
- Not recommended for use in the construction or sealing of aquariums.
- Cannot be painted, as paint will not adhere to sealant.
- Acetoxy sealant is not recommended for use on plastic sheeting. Oxime sealant is not recommended for use on polycarbonate and acryl plastic sheeting; suitability for use on other types of plastic should be tested prior to application.
- Not for use on freshly painted surfaces (enamel or solvent-containing types).
- Should not be applied to materials that bleed plasticizers or solvents or release by-products that may inhibit cure, affect adhesion or discolor the sealant (e.g. bituminous-based adhesives and coatings).
- Do not clean or treat the sealant with materials, solvents or cleaning agents that may affect or discolor the sealant, particularly during sealant cure.
- Do not apply at temperatures below 5°C or when substrate surface temperatures exceed +50°C.
- Should not be used as an interior penetration firestop sealing system.
- Should not be applied to surfaces in direct contact with food or drinking water. This sealant has not been tested to determine status under U.S. Food and Drug Administration regulations.
- Not recommended for direct contact on the reflective coatings of mirrors.
- Polyester powder coat paint exhibits a highly variable wax content on the surface. Ensure thorough solvent-cleaning.
- Sealant cures by contact with moisture vapor in the air. Not recommended for use in closed or confined areas where sealant cure may be inhibited by lack of air.
- Not for medical or pharmaceutical use.
- Do not use in the manufacture of insulated glass (IG) units.
- All organically extended silicone sealants exhibit higher shrinkage than 100% silicone sealants.

Learn more

Visit www.xiameter.com to learn more about the many product options available to you from the XIAMETER™ brand.

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Form No. 95-347-01-1020 S2D