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# AST-RTV™ SILICONES

## Adhesive/Sealant/Instant Gasket

### Product Description

**AST-RTV Silicone** is a multi-purpose, single-component adhesive sealant that quickly adheres to most surfaces. It cures in 24 hours providing a tough, resilient, silicone rubber good for hundreds of applications.

**AST-RTV Silicone** can be used for gasketing, sealing, bonding, insulating, caulking, encapsulating, and coating. This flexible material resists shrinking, cracking, weather, ozone, chemicals, moisture, vibration, and extreme temperatures ranging from -85° to 450°F (-65° to 232°C), Hi-Temp Red to 500°F (260°C) continuous and 600°F (315°C) intermittent exposure. Low-volatile formula recommended for many automotive applications.

**AST-RTV Silicone** is USDA, UL, and NSF approved. Meets FDA Reg. No. 21 CFR 177-2600 and MIL-A-46106 Specs. The equivalent of Dow Corning's 732 and 736, GM, Ford, and Chrysler specs., Meets ASTM C 920.

**AST-RTV Silicone** is great for making replacements of custom gaskets and seals for all types of motors, transmissions, gear housings, pumps, power tools, machinery, etc. It's better than conventional gaskets because it fills in surface irregularities.

**As a sealer and caulk**, use AST-RTV Silicone to seal heating and ventilating ducts. It seals cracks and gaps around windows, vents, doors, machinery, truck cabs and trailers, fixtures, lights, walls, bathtubs, sinks, etc. It can be used to waterproof electrical connections and boxes. It seals out water from compartments in machinery as well as holes where wire tubing or refrigeration lines run through walls.

**As a flexible adhesive** AST-RTV Silicone is versatile and easily bonds dissimilar materials. It provides excellent adhesion to clean metal, glass, most types of wood, ceramic, porcelain, painted, and many plastic surfaces. Attach nameplates and signs to equipment, walls, doors, windows, (interior or exterior). AST-RTV Silicone bonds gaskets in heating and refrigeration units.

**As a specialty sealant** AST-RTV Silicone can be used to seal or coat components exposed to moisture, vibration, shock, certain fuels, oils, solvents, chemicals and corrosives for a long period of time. This product can be used as a formed-in-place gasket where irregular shapes and harsh conditions reject ordinary seals. It is also effective for repairing electrical insulation, sealing insulators and entrance ports to transformers.

### Features & Benefits

- Superior caulking, bonding, and sealing qualities
- Easier to use than other gasketing methods
- Resists chemicals, temperature extremes, weather, vibration, moisture, and ozone
- Will not sag, run off, or shrink
- Functions in hundreds of applications as a specialty sealant and flexible adhesive
- Excellent non-conducting characteristics
- Low volatile material available, oxygen sensor safe
- Neutral cure available for masonry

### Applications Include

Hi-temp Sealing, Waterproof Sealant, Instant Gasket Sealing, and Insulating.

### Typical Properties

AST-RTV Silicone is 100% Silicone-General Purpose (Acetoxy cure), Room temperature vulcanizing, Single component homogeneous Non-slumping paste.

Properties	Values		
Color	White, Clear, Blue, Black, Aluminum	Red (Hi-Temp)	White (Mildew Resistant)
Viscosity at 77°F (25°C) poises	300	300	300
Tack-Free Time, hrs	~1/2	1/4	1/4-1/2
Specific Gravity* 77°F (25°C)	1.05	1.04	1.05
Durometer Hardness* Shore A, points	30	32	30
Tensile Strength,* psi	350	350	250 - 350
Elongation,* percent	500	500	500
Dielectric Strength*	550	550	550
Shelf Life, at or below 90°F (32°C), months	12	12	12
Odor (uncured)	Acetic Acid	Acetic Acid	Acetic Acid

RTV Silicone Softener Solution: 47% - Isopropyl alcohol, 37% - Toluene, 16% - Water

\* As cured 7 days at 77°F (25°C) and 50% Humidity

### Cure

Cures at room temperature on exposure to water vapor the air, giving off a small amount of acetic acid. Tack-free time is 20 minutes full cure 24 hours. Cure times will vary with temperature, humidity and bead or gap size.

**ANTI-SEIZE TECHNOLOGY**

2345 N. 17th AVE. • FRANKLIN PARK, IL 60131-3432

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### Special Properties

May be applied overhead or on side-wall joints and surfaces will not sag or run off.

### Special Authorizations

**FDA Regulations** No.21 CFR 177.2600  
**NSF/ANSI Standard** 51- Food Equipment Materials Rating  
**USDA Rating** P1, Sealant for Food Zone  
**UL 150 C Rating**, File No. QMFZ2-E197140  
**Federal Spec.** TT-S-001543A, Class A (COM-NBS)  
**Federal Spec.** TT-S-00230C, Class A (COM-NBS)  
**Military Spec.** MIL-A-46106 A

### Special Notes

#### **Equal to:**

Dow Corning® 700, 732, 736  
GE® 102 to 109, IS802, 803, 808 & SCS1000 series, 1702

AST-RTV™ P/Ns	27104,106,107,108, 109 27084, 86, 87, 88, 89	27085, 27105	27104, 27084
Dow Corning™ P/Ns	700, 732	736	786
General Electric™ P/Ns	RTV102,103,108,109 IS802, 803, 808 SCS 1000 series	RTV106	

### Cautions

Read all information on labels and MSDS prior to use. All products should be tested & evaluated for a particular purpose prior to use. See Warranty Statement in our Catalog or on our Website. Go to antiseize.com

### Product Limited Warranty

This information is based on information we believe to be reliable and accurate, but no guarantee of its accuracy is made for a particular application. We urge and recommend that Users pretest their application prior to incorporating the product into use and assume that the User will conduct such testing. Also see warranty statement on website.

#### **Available In:**

	10.3 oz cart	8 oz press	3 oz tube
<b>ALMOND P/N:</b>		27082	
<b>WHITE P/N:</b>	27104	27084	27034
<b>HI-TEMP P/N:</b>	27105	27085	27035
<b>CLEAR P/N:</b>	27106	27086	27036
<b>BLUE P/N:</b>	27107	27087	
<b>BLACK P/N:</b>	27108	27088	

	10.3 oz cart	8 oz press
<b>ALUMINUM P/N:</b>	27109	27089
<b>FOOD GRADE WHITE P/N:</b>	27110	
<b>NEUTRAL CURE CLEAR P/N:</b>	27101	

### Directions For Use

Remove all oil and grease, clean and dry all surfaces. As a gasket or an adhesive: Apply silicone to surfaces and assemble parts within a few minutes, press or clamp parts together. As a caulk: Tape surfaces not desirable to have silicone, apply bead and work or smooth to desired shape. Immediately wipe away excess material and remove tape.

For safe handling information on this product, consult the Material Safety Sheet (MSDS). Go to antiseize.com

### Storage

Store Pressure Cans, Cartridges and tubes in closed containers in a dry location. Best at 46° to 70° F (8° to 21°C). Product stored at other temperatures or for longer periods of time will not perform within specifications.

### Shelf Life

AST-RTV Silicones in un-opened containers and stored at 46 ° to 70 °F will have a optimum product life of 2 years.

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