

ALUMI-SEAL #1283

Aluminum RTV Silicone Gasket Maker



Features:

- Pressurized can means no caulking gun required
- Cured material stays flexible as low as -76°F
- Can be applied overhead or on sidewall joints without sagging or running off
- Remains watertight and weatherproof through years of exposure
- Temperature range of -76°F to 300°F and up to 400°F intermittently
- Resistant to rain, sleet, snow, sunlight and temperature extremes
- When fully cured and washed meets USDA standards

Description:

ALUMI-SEAL is a multipurpose silicone sealant. It is a non-slump, paste-like, one-component RTV (room temperature vulcanizing) gasket-maker. When applied as a formed-in-place gasket, it reacts with moisture in the air and cures to a rubber like product.



Applications:

- Clean Metal
- Plastic
- Plumbing Fixtures
- Glass
- Rubber
- Heating & Ventilating Duct Work
- Most Types of Wood
- Ceramic Surfaces
- Equipment Housing

Product Properties:

Method	Test	Unit	Result
As Supplied			
ASTM C 679	Tack-free time at 25°C (77°F), 50% RH	Minutes	10-20
	Tooling time	Minutes	5-10
ASTM C 639	Flow, sag or slump		Nil
As Cured – 7 days at 25°C (77°F) and 50% RH			
ASTM D 2240	Durometer Hardness, Shore A	Points	26
ASTM D 412	Ultimate tensile strength	psi (MPa)	310 (2.1)
ASTM D 624	Tear strength	ppi (kN/m)	22 (3.9)
ASTM C 794	Peel strength	pli (kN/m)	22 (3.9)
ASTM C 603	Extrusion rate	g/min	370

Other Qualifications:

ASTM Tests (Formerly TT-S Federal Specifications) TT-S-002380C, Type II, Class A, Use G and TT-S-001543A, Type NS, Class A, Use G, were replaced by ASTM C920.

ASTM C920 encompasses the following ASTM Methods:

- Rheological Properties – C639
- Extrusion Rate – C1183
- Application Life – C1183 (Not applicable for a one-part sealant)
- Hardness – C661 (Similar to Durometer)
- Effects of Heat Aging – C-1246
- Stain and Color Changing – C510 (Not applicable)
- Adhesion and Cohesion After Cyclic Movement – C719 (Test class 25)
- Adhesion-in-Peel – C794
- Adhesion in Peel After Ultraviolet Exposure through Glass – C794
- Effects of Accelerated Weathering – C793
- Sealants Exposed to Continuous Immersion – C1247

FDA Regulations:

- CFR 175.105 – “Adhesives” applies to sealants used to seal two surfaces together that the sealant is only exposed at the seam. Considered incidental contact.
- CFR 177.2600 – “Rubbers” applies to things like conveyor belts and other things that the food contact is more than just a small amount at the seams

National Sanitation Foundations:

- NSF51 – Food Contact

UL Rating:

- USR-CNR-94HB

Automotive Applications:

- Sensor Safe -<0.6% D4 – D10
- Oil Resistance – Internal DCTM

Product Characteristics:

Appearance:	Solid (paste)
Odor:	Acetic acid odor
Flash Point:	Closed cup: >100°C (>212°F)
Relative Density:	1.007
VOC:	31 g/L
Storage:	Store in original container protected from direct sunlight in a dry, cool, well-ventilated area away from incompatible materials.
Transport Information:	
UN Number:	UN1950
Proper Shipping Name:	Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane).
Class:	2.1
Packing Group:	Not available

DOT Placard:**Directions:**

Clean and dry surface. Remove oil, grease, dirt and dust from surface. Hold nozzle at 45° angle and apply a continuous bead of 1/16" to 1/8" in any direction. Sealant normally "skins over" in 5 minutes and dries tack free to the touch in one hour. If spreading or working material is required, do immediately after applying. Paper towels can be used to remove excess. Sealant cures and bonds fully in 24 hours and maximum strength is achieved in 7 days. Sealant is easily trimmed with a sharp tool. Do not destroy bond by undercutting.

This product is corrosive to most metals and is not recommended for electrical connections.

Should not be used on head gaskets.

Pictograms:**Signal Word:**

Warning.

Personal Protective Equipment Required: