

CSL533 | High Heat Non-Corrosive Sealant



Benefits

- Unaffected by extreme temperatures
- Resists moisture, vibration, mechanical and thermal shock
- Non-corrosive

High heat form-in-place gasketing for industrial assembly and maintenance

Gaskets are used to seal mechanical assemblies to exclude dirt, water or other contaminants and to provide protection from exposure to extreme environmental conditions like high temperature and humidity.

Form-in-place gasketing provides many benefits in a variety of industrial applications. It can be applied utilizing many manufacturing methods and to many complex geometries eliminating costly inventory of pre-cut gaskets.

Elastomeric sealants due to their stress relieving properties are also used to relieve stress thereby significantly increasing the reliability of the assembly.

Why do silicones excel in industrial and transportation applications?

Silicone elastomers can be formulated to meet many of the physical properties required of high performance gaskets; silicone sealants:

- possess enhanced chemical and oil resistance
- remain permanently flexible in extreme conditions
- are resistant to humidity, moisture and contaminants
- absorb mechanical and thermal shock and vibration
- are non-corrosive and have low toxicity
- have excellent thermal stability
- have excellent electrical properties
- resist ultra-violet rays, ozone and weathering
- useful in a variety of application and manufacturing methods

CSL533 100% Silicone High Heat Non-Corrosive Sealant

CSL533 is a one-part, moisture curing RTV (Room Temperature Vulcanizing) silicone sealant that cures to a tough rubber gasket that can be used in corrosion-sensitive applications with no adverse effects.

CSL533 is designed to maintain maximum performance and remain permanently flexible in a continuous temperature environment of 300°C (572°F).

CSL533 also provides excellent resistance to vibration and shock and severe weathering conditions.

CSL533 has superior resistance to oils used in mechanical and automotive systems.

CSL533 has superior adhesion to most substrates.

... CSL533 Product Characteristics ↩



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Typical Applications

- Automotive applications include: valve, timing chain and solenoid covers, axle and thermostat housings, water and oil pump seals, fuel pumps to block and compressor gaskets
- Appliance door gaskets
- Humidifier and air conditioner gaskets
- Ductwork gaskets and dust collection components
- Wire and cable insulation

Features

- Extreme temperature performance
- Oil resistance
- Superior adhesion and flexibility
- Remain permanently flexible



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CSL533 Intended Uses

CSL533 is used in a wide variety of high temperature automotive and industrial applications requiring high adhesion. It replaces almost any cut gasket by making reliable form-in-place gaskets that resist cracking, shrinking and migrating caused by thermal cycling.

CSL533 is specifically formulated to be used as a form-in-place gasket where operating temperatures up to 300°C (572°F) are maintained. It can also be used to coat pre-cut gaskets to increase reliability.

CSL533 Typical Properties[‡]

Cure System	One part RTV/Oxime
Extrusion Rate ¹ [g/min]	300
Cure Time at Standard Conditions ² [hours]	24
Tensile Strength ³ ASTM D412 [psi]	200
Hardness ³ ASTM D2240 [points]	25 Shore A
Elongation at Break ³ ASTM D412	400%
Tear Resistance ³ (ASTM D624, Die B) [ppi]	30

[‡]Data is subject to change without notice. These values are not intended for use in preparing specifications. For more complete information, please refer to the current Technical Data Sheets for these products.

NOTES

- 1 Minimum extrusion rate @ 25°C (90psi, 3.2mm orifice)
- 2 Standard Conditions are 25°C (77°F) and 50% relative humidity
- 3 Cured for 7 days at Standard Conditions²

CSL533 Availability

Colors[¥]



Hi Temp Red 013

[¥]The color chips are only representations of actual colors and should not be considered an exact color match to finished product.

CSL533 is available in red.

Complementary Formulations

High temperature neutral cure sealant is also available in a self-leveling formulation.

Packaging

CSL533 is available in 300mL (10.2 fl. oz.) cartridges, 19L (5 US gallon) pails and 189L (50 US gallon) drums.

Shelf Life and Storage

CSL533 has a shelf life of twelve months from date of manufacture when stored in the original unopened container in dry, shaded conditions, away from sources of heat or ignition, and stored at or below 90°F (32°C).