

# CSL-503 Technical Data Sheet

## Hi-Temp Silicone Rubber Gasket Material

### 1. PRODUCT NAME

CSL-503 Hi-Temp Silicone Rubber Gasket Material

### 2. FEATURES

- Unaffected by extreme temperatures from -60°C to 315°C (-76°F to 600°F)
- Gasket will remain permanently flexible
- Provides excellent resistance to vibration and shock

### 3. PRODUCT DESCRIPTION

CSL-503 is a one-part, moisture curing RTV (Room Temperature Vulcanizing) silicone rubber that cures to a tough rubber gasket. It is specifically formulated to be used as a formed-in-place gasket where operating temperatures up to 315°C (600°F) are maintained.

Typical applications include:

- Water pump and compressor gaskets
- Appliance gaskets
- Ductwork gaskets
- Electrical insulation

- Air conditioner and humidifier gaskets
- Fireplace seals
- High temperature spacers

### 4. COLORS

CSL-503 is available in red only.

### 5. PACKAGING

CSL-503 is available in 300ml (10.2 fl oz) caulking cartridges, 19L (5 US gallon) pails and 189L (50 US gallon) drums.

### 6. STORAGE

CSL-503 when stored in original unopened container at or below 32°C (90°F) has a shelf life of 12 months from date of shipment.

### 7. SAFETY PRECAUTIONS

CSL-503 releases small amounts of acetic acid during cure. Adequate ventilation should be provided with the extensive use of this sealant. On direct contact, uncured sealant may irritate eyes. Flush well with water and call a physician. See Material Safety Data Sheet available on this product.

### Typical Properties

These values are not intended for use in preparing specifications

#### Uncured

Type	100% silicone, one-part RTV
Appearance	Smooth, non-slump red paste
Specific Gravity	1.16
Slump/Sag	Nil
Extrusion Rate (3.2mm (1/8") orifice, 90psi)	100 g/min.
Application Temperature Range	-18°C to 50°C (0°F to 120°F)
Cure System	Acetoxy, Moisture Cure
Skin-Over Time at Standard Conditions*	10 min.
Cure Time at Standard Conditions*	24 hr.

#### Cured

At Standard Conditions\* for 7 Days

Durometer Hardness (ASTM D2240, Shore A)	26 points
Tensile Strength (ASTM D412)	19.4 kg/cm <sup>2</sup> (275 psi)
Elongation at Break (ASTM D412)	400%
Tear Resistance (ASTM D624, Die B)	3.6 kN/m (20 ppi)
Thermal Expansion Coefficient (0°C to 100°C / 32°F to 212°F)	9.3 x 10 <sup>-4</sup> cm/°C
Useable Temperature Range	-60°C to 315°C (-76°F to 600°F)
Shrink Factor	Nil

\*Standard Conditions are 25°C (77°F) and 50% relative humidity

#### **8. WARRANTY**

CSL Silicones Inc. warrants that its products will meet its specifications. CSL shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, CSL's liability, expressed or implied, is limited to the stated selling price of any defective goods.

Data is subject to change without notice and it is therefore recommended that this information not be used for specification writing. For additional information on specific applications, contact the manufacturer.