

# ***LOCTITE®***

**GASKETING CATALOG**

NORTH AMERICAN  
PRODUCT CATALOG



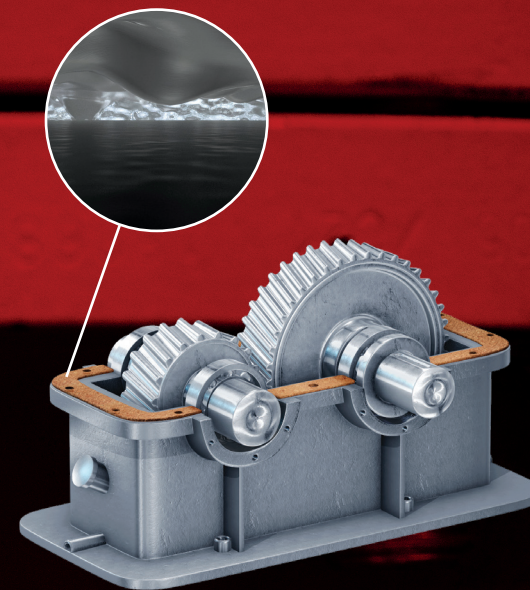
# KEEP DOWNTIME TO A MINIMUM. AND SEAL PERFORMANCE TO A MAXIMUM.

LOCTITE® liquid Gasketing Products fill the minute gaps in surfaces that can lead to leaking and failure with traditional gaskets. The result? A longer-lasting, reliable, durable seal that improves efficiency and keeps unscheduled downtime to a minimum.



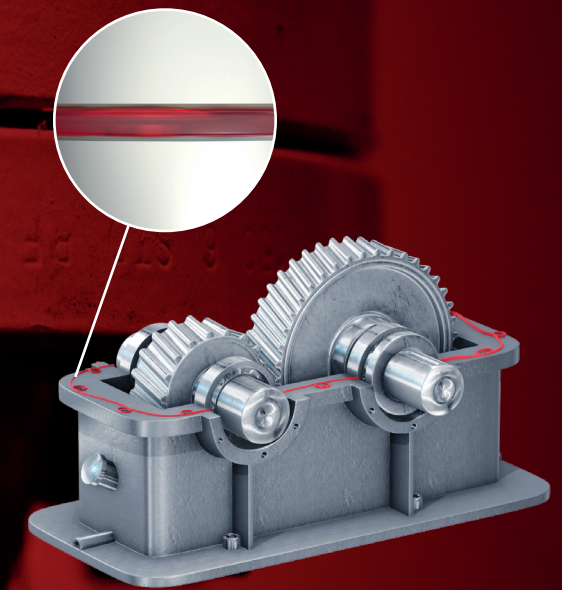
# GASKETING PRODUCTS

Cut gaskets leak. **We seal.**



## PROBLEM

With compression gaskets:  
Not all surface imperfections are filled.  
They distort, relax under compression  
and displace from the joint.



## SOLUTION

With liquid gaskets:  
When assembled, all surface imperfections  
are filled, adding structural stiffness and  
eliminating micromovement and slipping.  
They do not shrink, crack or suffer from  
relaxation.



# Liquid gaskets hold up better. For longer lasting seals.

To provide a leak-free seal over a long period of time, gaskets must fill voids and be resistant to liquids and/or gases, while withstanding the operating temperatures and pressures to which they are subjected. LOCTITE® offers a range of gasketing products designed for any flange type, gap size or material.



## 518™ Pen

No-drip, No-mess

The new LOCTITE® 518™ Pen is a leak-fighting flange sealant with an easy to apply roll-on applicator. It's the fastest way to apply reliable and long-lasting liquid gaskets, without any mess or waste. Rigid, machined flange surfaces typically are designed for no gap, allowing for metal to metal contact. For these assemblies anaerobic liquid gaskets are the best choice because they provide the highest strength seal.

 **Flange Type:** Rigid Machined Flange



## How to choose a gasketing product.



### FLANGE TYPE

#### RIGID MACHINED FLANGES

Rigid, machined flange surfaces typically are designed for no gap, allowing for metal to metal contact. For these assemblies anaerobic liquid gaskets are the best choice because they provide the highest strength seal.

#### STAMPED OR FLEXIBLE FLANGES


Typically thinner, stamped metal flanges can have larger gaps that need to be filled. They are also subject to more flex in service. For these types of assemblies, silicone liquid gasketing products provide the best seal.



## SI 5910™

High Adhesion

LOCTITE® SI 5910™ is a low strength, silicone-based gasketing product designed for use on flexible flanges with machined or cast surfaces. It has good resistance against oil and joint movement. Typical applications include stamped sheet metal covers. Typically thinner, stamped metal flanges can have larger gaps that need to be filled. They are also subject to more flex in service. For these types of assemblies, silicone liquid gasketing products provide the best seal.

 **Flange Type:** Stamped/Flexible Flange



Find the right product for your application



FLANGE TYPE

Rigid Machined Flange

- LOCTITE® 518™
- LOCTITE® 518™ Pen
- LOCTITE® 510™
- LOCTITE® NS 5540™
- LOCTITE® NS 5550™

Stamped Flange

- LOCTITE® SI 5699™
- LOCTITE® SI 5910™
- LOCTITE® SI 5900™
- LOCTITE® SI 596™

SEE OUR FULL LINE OF GASKETING PRODUCTS:  
gaskets.loctite.us

Rigid Machined Flange  
GASKETING PRODUCTS



518™  
General Purpose

**Color:** Red  
**Viscosity:** 750,000 cP Thixotropic  
**Temperature Resistance:** 300°F  
**Cure Method:** Anaerobic



518™ Pen  
No-drip, No-mess

**Color:** Red  
**Viscosity:** 750,000 cP Thixotropic  
**Temperature Resistance:** 300°F  
**Cure Method:** Anaerobic



510™  
High Temperature

**Color:** Opaque Pink  
**Viscosity:** 90,000 cP Thixotropic  
**Temperature Resistance:** 400°F  
**Cure Method:** Anaerobic



NS 5540™  
Extreme Temperature

**Color:** Brown  
**Viscosity:** 48,000 cP  
**Temperature Resistance:** 1,300°F  
**Cure Method:** Heat



NS 5550™  
Extreme Temperature

**Color:** Brown  
**Viscosity:** 2,000,000 cP  
**Temperature Resistance:** 1,500°F  
**Cure Method:** Heat

Stamped Flange  
GASKETING PRODUCTS



SI 5699™  
Chemical Resistant

**Color:** Grey  
**Viscosity:** Paste  
**Temperature Resistance:** 392°F  
**Cure Method:** Moisture



SI 5900™  
Instant Seal

**Color:** Black  
**Viscosity:** Paste  
**Temperature Resistance:** 392°F  
**Cure Method:** Moisture



SI 5910™  
High Adhesion

**Color:** Black  
**Viscosity:** Paste  
**Temperature Resistance:** 392°F  
**Cure Method:** Moisture



SI 596™  
High Temperature

**Color:** Red  
**Viscosity:** Paste  
**Temperature Resistance:** 600°F  
**Cure Method:** Moisture

Surface Preparation  
GASKETING PRODUCTS



SF 790™  
Part Cleaner  
135544

A gray to off-white methylene chloride liquid solvent in an aerosol spray designed to remove baked-on chemical gaskets, gasket cements and conventional gasket materials from metal surfaces. Its aerosol spray form enables spray application on to intricate shapes with maximum penetration.



SF 7649™  
Primer  
209715

Designed to promote the curing speed of LOCTITE® anaerobic adhesives and sealants without any significant loss of joint strength. Especially recommended for applications with passive metals or inert surfaces and with large bond gaps.

Equipment  
GASKETING PRODUCTS



HD10 Pneumatic Handheld 300 ml Cartridge Dispenser

1714379

A manually controlled applicator that dispenses product from 300 ml cartridges or 250 ml tubes (when tube adapter 989347 is used). The cartridge or tube is pneumatically pressurized and product is dispensed from the nozzle while the trigger is depressed.



Manual Cartridge Applicator

1093940

A hand-held, manually operated meter-mix dispenser. These dispensers provide a convenient, cost-effective method to apply product with minimal waste. The dispensers are compatible with 1:1 and 1:2 mix ratio products.

| GASKETING PRODUCTS     |             |           |             |  |                             |                       |                      |                                  |                          |
|------------------------|-------------|-----------|-------------|--|-----------------------------|-----------------------|----------------------|----------------------------------|--------------------------|
| Product                | Item Number | Pack Size | Color       | Features   | Max Gap Fill Unprimed [in.] | Viscosity [cP] 20 RPM | Thixotropic [yes/no] | Temperature Range                | Fixture Time [min] Steel |
| RIGID MACHINED FLANGES |             |           |             |  |                             |                       |                      |                                  |                          |
| 518™                   | 2096061     | 50 ml     | Red         | Ideal for use on rigid iron, steel and aluminium flanges | 0.01 in. (0.25 mm)          | 750,000               | Yes                  | -65°F to 300°F (-55°C to 150°C)  | 25                       |
|                        | 2096064     | 300 m     |             |  |                             |                       |                      |                                  |                          |
| 518™ Pen               | 2392164     | 25 ml     | Red         | Roll on applicator                                       | 0.125                       | 750,000               | Yes                  | -65°F to 300°F (-55°C to 150°C)  | 25                       |
| 510™                   | 135474      | 50 ml     | Opaque Pink | High Temperature Applications                            | 0.01 in. (0.25 mm)          | 90,000**              | Yes                  | -65°F to 400°F (-55°C to 200°C)  | 25                       |
|                        | 234225      | 250 ml    |             |  |                             |                       |                      |                                  |                          |
| NS 5540™               | 2374452     | 1 pint    | Brown       | High Temperature   | 1.6                         | 48,000                | No                   | -40°F to 1300°F (-40°C to 704°C) | Heat cure product        |
| NS 5550™               | 2374447     | 1 quart   | Brown       | High Temperature   | 6.4                         | 2,000,000             | No                   | -40°F to 1500°F (-40°C to 815°C) | Heat cure product        |

| Product                     | Item Number | Pack Size | Color | Feature   | Viscosity* cps [Mpas] or Extrusion Rate** g/min | Temperature Range               | Tack Free Time [min] |
|-----------------------------|-------------|-----------|-------|---|---|---------------------------------|----------------------|
| STAMPED OR FLEXIBLE FLANGES |             |           |       |   |   |                                 |                      |
| SI 596™                     | 135507      | 80 ml     | Red   | High temperature (acetic acid silicone)   | 73,000 cPs*                                     | -75°F to 600°F (-59°C to 316°C) | 30                   |
|                             | 492001      | 80 ml     |       |   |   |                                 |                      |
|                             | 198817      | 300 ml    |       |   |   |                                 |                      |
|                             | 495536      | 300 ml    |       |   |   |                                 |                      |
|                             | 545481      | 300 ml    |       |   |   |                                 |                      |
| SI 5699™                    | 135275      | 70 ml     | Grey  | For flexible flanges, machined or cast surfaces, metal or plastic, increased oil resistance     | 200 g/min**                                     | -67°F to 392°F (-55°C to 200°C) | 30                   |
|                             | 135270      | 300 ml    |       |   |   |                                 |                      |
| SI 5900™                    | 743912      | 90 ml     | Black | Excellent oil resistance, high adhesion, high joint movement, excellent in water/glycol         | 30 g/min**                                      | -67°F to 392°F (-55°C to 200°C) | 15                   |
|                             | 743913      | 190 ml    |       |   |   |                                 |                      |
|                             | 743914      | 190 ml    |       |   |   |                                 |                      |
| SI 5910™                    | 231232      | 300 ml    | Black | High joint movement, oil resistance, good on wide variety of plastics, glasses, ceramic, metals | 500 g/min**                                     | -67°F to 392°F (-55°C to 200°C) | 40                   |

\*Note: To increase gap fill, use a primer  
\*\*Different viscosity test used



# A Costly 5% Leakage Rate Eliminated



“A high leakage rate was causing warranty claims and production delays. LOCTITE’s Engineering Solutions Expert helped us completely eliminate the problem.”

A manufacturer of cast iron gear boxes and geared motors experienced a 5% leakage rate using a competitor’s liquid gasket on the adapter assembly flange. This was costly due to both leakage-related warranty claims on purchased units and testing and production delays caused by the slow cure rate. The competitive product also made it difficult to disassemble and repair the gearbox. **LOCTITE® 518™** Gasket Sealant was an ideal solution, offering a complete seal, quick

curing, and easy disassembly. A LOCTITE® Engineering Solutions Expert showed the plant’s team how to clean flange surfaces and dispense **LOCTITE® 518™** in a continuous bead. Immediately following assembly, **LOCTITE® 518™** fills the gaps between the flange surfaces and the products can be instantly pressure tested to 40 psi. Leaks have now been eliminated and disassembly is easier for customers.

## BENEFITS

### LOCTITE® 518™ Gasket Sealant:

- Seals more effectively, eliminating leakage during operation
- Sustains low pressure testing of 40 psi immediately upon assembly
- Easily disassembles with a small amount of cleavage force





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