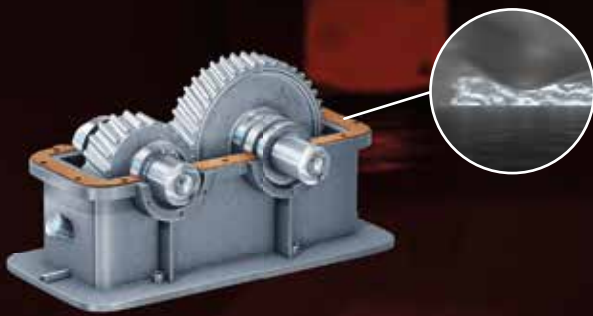




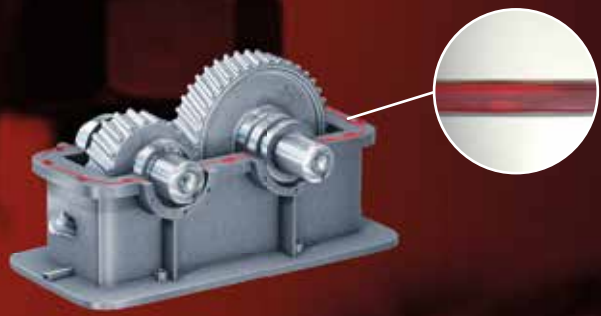
GASKETING PRODUCTS

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.



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.



BEST SELLER

LOCTITE 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.

Benefits:

- P1 NSF Reg. No.: 123758
- High viscosity
- Semi-flexible



Flange type:
Rigid machined flange



LOCTITE 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.

Benefits:

- 1K silicone, requires no mixing
- Excellent resistance to automotive engine oils
- The thixotropic nature reduces the migration of liquid product after application to the substrate



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 5188
- LOCTITE 5800
- LOCTITE NS 5540

Stamped Flange

- LOCTITE SI 5699
- LOCTITE SI 5900
- LOCTITE SI 5910
- LOCTITE SI 5970
- LOCTITE SI 5980
- LOCTITE SI 5300

For specific details on viscosity see the Technical Data Sheet.



* Optimised Health & Safety products focusing on people safety. Enhancing safety in production, application and end-use.

Rigid Machined Flange



LOCTITE 518
General Purpose

Colour: Red
Viscosity: 750,000 mPa·s thixotropic paste
Temperature resistance: 150 °C
Cure Method: Anaerobic



LOCTITE 518 PEN
No-Drip, No-Mess

Colour: Red
Viscosity: 750,000 mPa·s thixotropic paste
Temperature resistance: 150 °C
Cure Method: Anaerobic



LOCTITE 510
High Temperature

Colour: Pink
Viscosity: 90,000 mPa·s thixotropic paste
Temperature resistance: 200 °C
Cure Method: Anaerobic



LOCTITE 5188
Flexible

Colour: Red
Viscosity: 21,000 mPa·s paste
Temperature resistance: 150 °C
Cure Method: Anaerobic



LOCTITE 5800
Health & Safety*

Colour: Red
Viscosity: 22,000 mPa·s thixotropic paste
Temperature resistance: 180 °C
Cure Method: Anaerobic



LOCTITE NS 5540
Extreme Temperature Liquid

Colour: Brown
Viscosity: 48,000 mPa·s
Temperature resistance: 704 °C
Cure Method: Heat Cure

Stamped Metal Flange or Flexible Flange



LOCTITE SI 5699

Chemical Resistant

Colour: Grey
Viscosity: Paste
Temperature resistance: 200 °C
Cure Method: Moisture



LOCTITE SI 5900

Instant Seal

Colour: Black
Viscosity: Paste
Temperature resistance: 200 °C
Cure Method: Moisture



LOCTITE SI 5910

High Adhesion

Colour: Black
Viscosity: Paste
Temperature resistance: 200 °C
Cure Method: Moisture



LOCTITE SI 5970

Flexible

Colour: Black
Viscosity: Paste
Temperature resistance: 200 °C
Cure Method: Moisture



LOCTITE SI 5980

General Purpose

Colour: Black
Viscosity: Paste
Temperature resistance: 200 °C
Cure Method: Moisture



LOCTITE SI 5300

High Temperature

Colour: Red
Viscosity: Paste
Temperature resistance: 300 °C
Cure Method: Moisture

**PLEASE CONTACT YOUR
HENKEL REPRESENTATIVE
FOR MORE INFORMATION**

on the full range
of gasketing products.

Surface Preparation



LOCTITE SF 7063

Cleaner

A solvent-based, general purpose parts cleaner formulated for metals. The product is able to remove most oils, greases, lubrication fluids, metal cuttings and dries residue-free.



LOCTITE SF 7200

Parts Cleaner, Gasket Remover

Designed to remove dried chemical gaskets by softening the material on the flanges. Once applied, the product develops a foam-like layer on the gasket, preventing the agent from running off the desired location, thus working for the entire duration. Typical applications include removal of all types of chemical gaskets from metal flanges. It is particularly suitable for aluminium or other soft metal flanges where scraping could lead to surface damage.



LOCTITE SF 7649

Activator

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

Equipment



LOCTITE 97002

300 ml Pneumatic Cartridge Dispenser

IDH 88632

It is a pneumatic dispenser for applying products from 300 ml cartridges. Pneumatic pressurisation minimises operator fatigue. Flow rate is controlled via the integrated pressure regulator. The operator controls the amount by holding down the trigger.



LOCTITE

300 ml Manual Cartridge Dispenser

IDH 142240

Dispenser for adhesives and sealants in 290 ml, 300 ml and 310 ml plastic and aluminium cartridges.

Please refer to page 130 for additional equipment/information.

RIGID MACHINED FLANGES

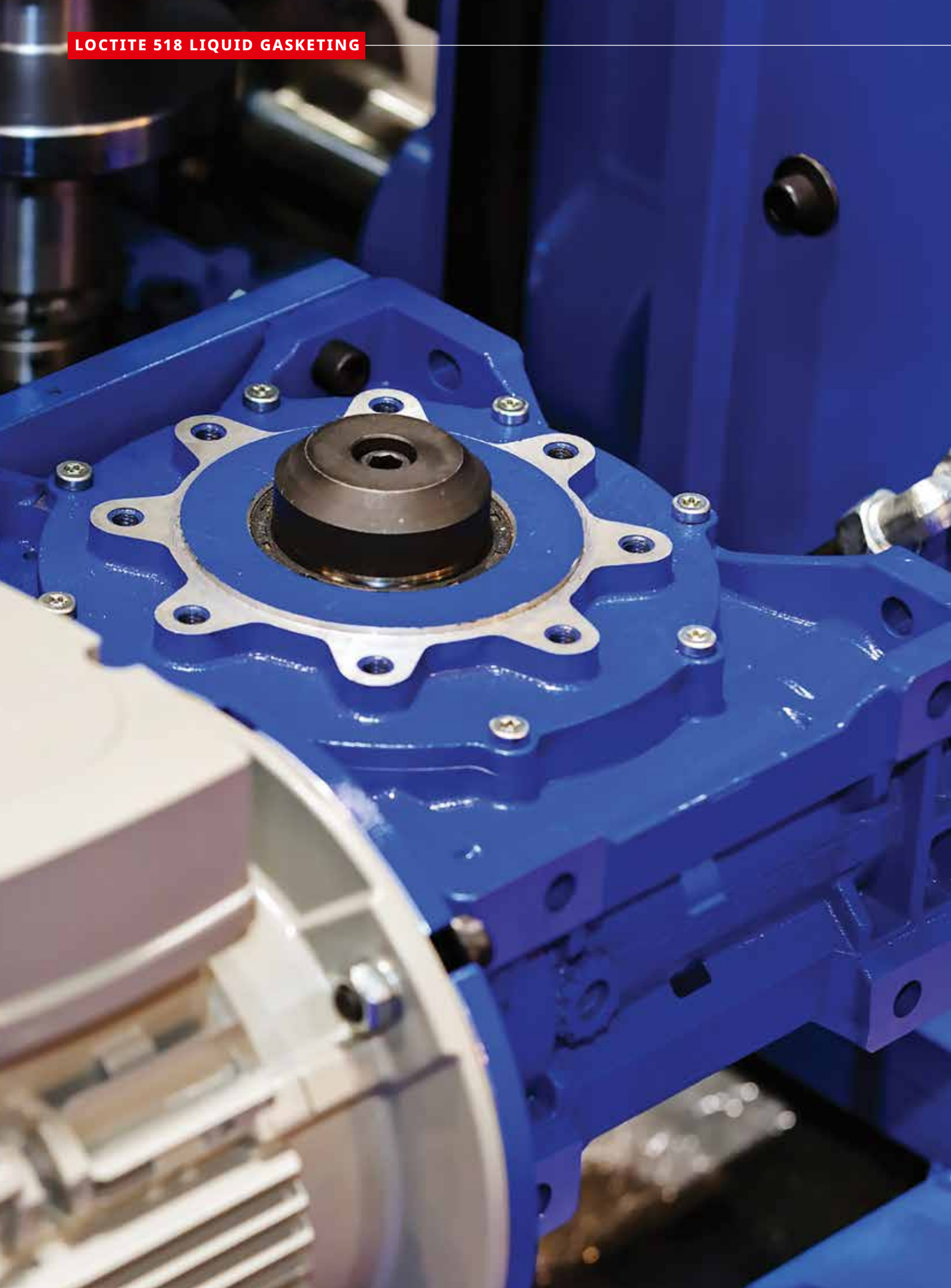
Product	Pack Size	Colour	Features	Max Gap Fill, Non activated* (mm)	Thixotropic (Yes/No)	Temperature Range (°C)	Fixture Time on Steel (min.)
LOCTITE 518	25 ml, 50 ml, 300 ml	Red	Semi-flexible, for use on rigid iron, steel and aluminium flanges	0.25	Yes	-55 to +150	25
LOCTITE 518 Pen	25 ml	Red	Roll on applicator	0.125	Yes	-55 to +150	25
LOCTITE 510	50 ml, 160 ml, 250 ml, 300 ml	Opaque pink	High temperature applications	0.25	No	-55 to +200	25
LOCTITE 5188	50 ml, 300 ml	Red	Flexible, for steel and aluminium flanges	0.25	Yes	-55 to +150	25
LOCTITE 5800	50 ml, 300 ml	Red	For rigid flanges, enhanced health and safety	0.25	Yes	-55 to +180	25
LOCTITE NS 5540	430 g, 850 g	Brown	High temperature	0.125	No	-40 to +704	Heat cure product

* Note: To increase gap fill, use an activator

** Different viscosity test used

STAMPED OR FLEXIBLE FLANGES

Product	Pack Size	Colour	Features	Extrusion Rate (g/min.)	Temperature Range (°C)	Tack Free Time (min.)
LOCTITE SI 5300	310 ml	Red	High temperature	250	-55 to +300	8
LOCTITE SI 5699	80 ml, 300 ml	Grey	For flexible flanges, machined or cast surfaces, metal or plastic, increased oil resistance	200	-55 to +200	30
LOCTITE SI 5900	300 ml	Black	Excellent oil resistance, high adhesion, high joint movement, excellent in water / glycol	30	-55 to +200	15
LOCTITE SI 5910	300 ml	Black	High joint movement, oil resistance, good on wide variety of plastics, glasses, ceramic, metals	500	-55 to +200	40
LOCTITE SI 5970	300 ml	Black	Excellent oil resistance, high joint movement, can be used with painted parts	60	-55 to +200	25
LOCTITE SI 5980	100 ml	Black	General purpose with excellent oil resistance	220	-55 to +200	30



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 2 bar. 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 1 bar immediately upon assembly
- Easily disassembles with a small amount of cleavage force