

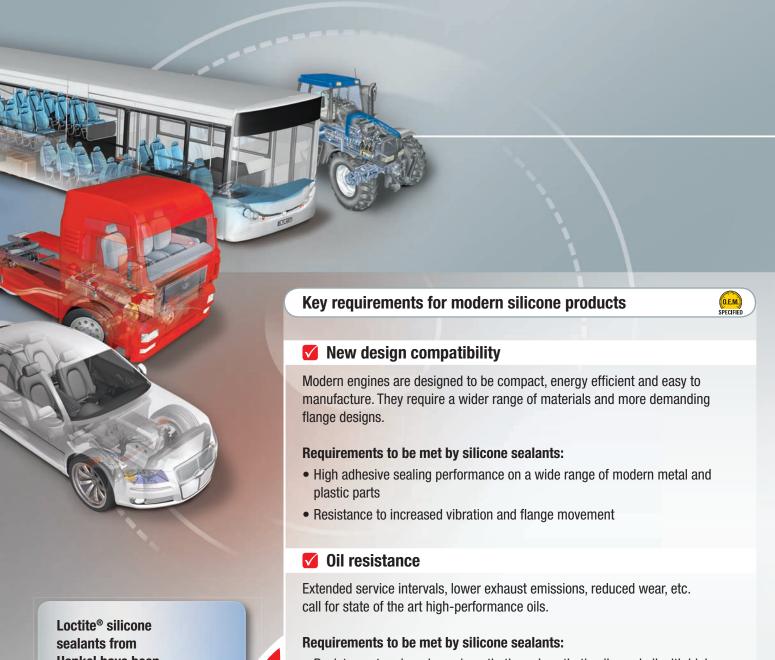
# Flexible Gasketing and Sealing Solutions

Recommended by the Professionals

– used by the Best







Loctite® silicone sealants from Henkel have been thoroughly tested in cooperation with auto makers, confirming their capability to meet the most exacting demands.

Henkel also performs stringent in-house quality control tests to ensure maximum quality standards.

 Resistance to mineral, semi-synthetic and synthetic oils, and oil with high contamination levels due to extended service intervals

# Temperature resistance

As a result of optimized power train components and compact designs, parts are exposed to higher temperatures.

#### Requirements to be met by silicone sealants:

- Resistance to oil temperatures up to 150 °C
- Resistance to high temperatures near heat-carrying assemblies such as exhaust systems and turbo chargers

#### Coolant resistance

Elevated oil temperatures place higher demands on cooling systems.

#### Requirements to be met by silicone sealants:

Resistance to the latest coolant technology and temperatures up to 120 °C

# **Gasketing Repair Products**

### Formulated to meet a broad range of complex gasketing and sealing needs

- Fill all voids with excellent fluid and temperature resistances
- Parts can be disassembled easily even after extended service













Loctite® 5920



Product colour	Black	Grey	Copper
Gap	Up to 1 mm	Up to 1 mm	Up to 1 mm
Temperature resistance	-55°C to 250°C*	-55 °C to 250 °C*	-55 °C to 350 °C*
Oil resistance	Excellent	Very good	Very good
Water/glycol resistance	Good	Excellent	Good

<sup>\*</sup> intermittent

#### **Practical Hints:**

- If there are traces of old gasket left on the parts to be sealed, clean with Loctite® 7200 Gasket Remover
- All parts must be clean and dry before sealing—use Loctite® 7063



#### Loctite® 5910 Premium Silicone Black Gasket Maker/Sealant

- For flanges with permanent oil contact
- Can be used for metal, plastic and painted parts
- Low odour, non corrosive

#### Typical uses:

Oil sump, valve cover, inlet manifold, timing chain cover, transmission cover, differential cover, etc.



#### Loctite® 5699 Premium Silicone Grey Gasket Maker/Sealant

- For flanges with permanent water/glycol contact
- Can be used for metal, plastic and painted parts
- Low odour, non corrosive

#### Typical uses:

Water pump, thermostat, valve cover, inlet manifold, transmission pan, differential cover, etc.



#### Loctite® 5920 Premium Silicone Copper Gasket Maker/Sealant

- For flanges exposed to high temperatures and high performance engines
- Can be used for metal, plastic and painted parts
- · Low odour, non corrosive

#### **Typical uses:**

Turbo and exhaust systems, oil sump, valve cover, inlet manifold, timing chain cover, differential cover.

Pack sizes	IDH No.
Blister card 40 ml	1133305
Tube 80 ml	1126633
Quick Gasket 200 ml	728771
Cartridge 300 ml	142491

Pack sizes	IDH No.
Blister card 40 ml	1124088
Tube 80 ml	1126648
Cartridge 300 ml	142480

Pack sizes	IDH No.
Blister card 40 ml	1124086
Tube 80 ml	1126645
Cartridge 311 g	235479

# **Sealing Repair Products**

For flexible bonding and sealing

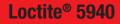
applications

# Loctite® 5926



# Blue Up to 1 mm -55 °C to 250 °C\* Good Good

# Loctite® 595





Clear	Black	Product colour
Up to 8 mm	Up to 8 mm	Gap
-55 °C to 250 °C*	-55 °C to 250 °C*	Temperature resistance
Excellent	Excellent	Water resistance
Excellent	Excellent	Weathering resistance



**Practical Hints:** 

Silicones are not over paintable
 Very good for sealing large exterior painted areas (e.g. trucks)
 Extremely high UV resistance



#### Loctite® 5926 Silicone Blue Gasket Maker/Sealant

- Multi purpose flexible silicone sealant
- For flanges of any size or shape
- Can be used for metal, plastic and painted parts

#### **Typical uses:**

Oil sump, valve cover, inlet manifold, timing chain cover, transmission cover, transmission pan, differential cover, water pump, thermostat etc.

Pack sizes	IDH No.
Blister card 40 ml	1123349
Tube 100 ml	1126639
Cartridge 310 ml	233862



#### Loctite® 595 Silicone Clear Sealant

 Bonding, sealing and protecting of components subjected to shock, constant vibration, twisting, flexing, thermal expansion and contraction

#### **Applications:**

Suitable for glass, metal, ceramics, composites, and most plastics.





#### Loctite® 5940 Silicone Black Sealant

- Room temperature vulcanising (RTV) silicone
- · High temperature protection

#### **Applications:**

For bonding and sealing in automotive and household electrical appliances.

Pack sizes	IDH Nr.
Blister card 40 ml	1123347
Tube 100 ml	1126635
Cartridge 300 ml	XXX

# **Henkel – The Solution Provider**

## Henkel – Partner of the automotive industry

- Based on innovative chemistry solutions and process know how, Henkel helps manufacturers to ensure outstanding quality in a smooth and efficient production process
- Close and constant cooperation with the automotive industry's R&D partners is the key to success

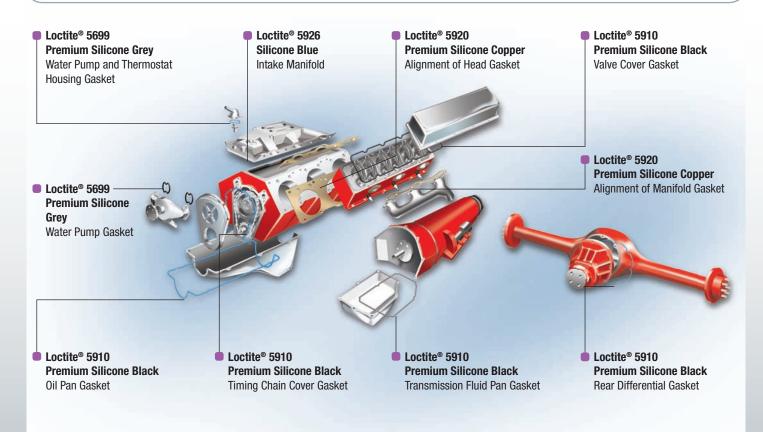
## Loctite® products in automotive manufacturing

- Loctite® adhesives and sealants from Henkel have been used successfully for decades by major car makers worldwide on engines, gearboxes, axles, etc.
- Loctite® engineers, working together with many major auto makers, have played a decisive role in shaping the progress of silicone technology and developing the designs required for effectively sealing flanges

### Silicone applications

- Assemblies made with pressed components, plastic parts or a combination of dissimilar materials require a flexible sealant designed to tolerate movement under high load and resist high temperatures and exposure to oils and/or coolants
- Specially formulated silicone sealants have lived up to these challenges as they have good adhesion, allowing them to flex with flange movements

#### **Examples for Silicone Gasketing Applications**





## A World of Engineering Solutions and Customer Support

Around the world, Henkel has an extensive commitment to motor sports where reliable performance must be delivered in the most extreme conditions. As Official Partner and Supplier to the Dakar Rally for several years, Henkel has supported the competing teams with products that reflect the company's innovation and technological excellence. Over the years, close contacts have developed into a strong relation of mutual trust and understanding, built on the competent service and the high-quality adhesives and sealants offered for fast and efficient repairs which have helped many drivers to make it to the finish line.

## **Dakar Rally – Gasketing Application**

#### **Challenge:**

Replacement of a truck oil pan



#### **Repair steps:**

- Use Loctite® 7200 Gasket Remover to remove residues on flanges
- Spray with Loctite® 7063 Cleaner to remove oil, dirt etc. from the surfaces
- Apply a continuous bead of Loctite<sup>®</sup> 5910
   Quick Gasket to the oil pan and assemble the parts







# Benefits: • Instant sealing

- Excellent oil resistance
- Flexible sealant
- · Very good gap filling properties
- Very good vibration resistance
- High adhesion

The data contained herein are intended as reference only. Please contact your local Henkel Technical Support Group for assistance and recommendation on specifications for these products.



#### **Henkel Limited**

Wood Lane End Hemel Hempstead Hertfordshire HP2 4RQ Tel. 01442 278100 Fax 01442 278071