



# LOCTITE<sup>®</sup> 587<sup>™</sup>

November 2004

## PRODUCT DESCRIPTION

LOCTITE<sup>®</sup> 587<sup>™</sup> provides the following product characteristics:

<b>Technology</b>	Silicone
Chemical Type	Oxime silicone
Appearance (uncured)	Metallic blue paste <sup>LMS</sup>
Components	One component - requires no mixing
Thixotropic	Reduced migration of liquid product after application to substrate
<b>Cure</b>	Room temperature vulcanizing (RTV)
<b>Application</b>	Gasketing or Sealing
Flexibility	Enhances load bearing & shock absorbing characteristics of the bond area.
Specific Application	Gasket replacement or Gasket dressing
Specific Benefit	Excellent resistance to automotive engine oils and Adheres to a wide range of substrates

LOCTITE<sup>®</sup> 587<sup>™</sup> is used for gasketing and sealing applications for both plant maintenance and small, medium, and large-sized OEM. As a formed-in-place gasket/sealant, LOCTITE<sup>®</sup> 587<sup>™</sup> has been designed to give outstanding performance in typical automotive gasketing applications including valve covers, rocker covers, oil pans, water pumps, end seals, intake manifolds, and rear axle housings. Excellent adhesive for bonding and repairing fabricated silicone gaskets. This product is typically used in applications up to 260 °C.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.28 to 1.33 <sup>LMS</sup>
Extrusion Rate, g/min:	
Pressure 0.62 MPa, time 15 seconds, temperature 25 °C:	
Semco Cartridge	250 to 600 <sup>LMS</sup>
Flow, ISO 7390, mm:	
After 2 minutes @ 25 °C	≤12.7 <sup>LMS</sup>
Flash Point - See MSDS	

## TYPICAL CURING PERFORMANCE

### Surface Cure

Tack Free Time, minutes:	
Cured @ 25 °C / 50±5% RH	10 to 50 <sup>LMS</sup>

## TYPICAL PROPERTIES OF CURED MATERIAL

Cured for 7 days @ 25 °C / 50±5% RH

### Physical Properties:

Tensile Strength, ASTM D 412	N/mm <sup>2</sup>	≥1.6 <sup>LMS</sup>
	(psi)	(≥232)
Elongation, ASTM D 412, %		≥350 <sup>LMS</sup>
Shore Hardness, ISO 868, Durometer A		26 to 40 <sup>LMS</sup>

## GENERAL INFORMATION

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

**For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).**

### Directions for use

1. For best performance bond surfaces should be clean and free from grease.
2. Full performance properties will develop over 72 hours.
3. Moisture curing begins immediately after the product is exposed to the atmosphere, therefore parts to be assembled should be mated within a few minutes after the product is dispensed.
4. Excess material can be easily wiped away with non-polar solvents.
5. Excess cured material can be removed with a knife or single edge razor blade.

*NOTE: Do not use LOCTITE<sup>®</sup> 587<sup>™</sup> for gasketing carburetors or fuel control devices where it will be in constant contact with hydrocarbon fuels. Material will develop excessive swell and loss of mechanical properties.*

*Do not use LOCTITE<sup>®</sup> 587<sup>™</sup> as a sealant for concentrated solutions of acetic, hydrochloric, nitric or sulfuric acids.*

### Loctite Material Specification<sup>LMS</sup>

LMS dated June 8, 2004. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

### Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

**Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties.**

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

**Conversions**

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{mm} / 25.4 = \text{inches}$$

$$\text{N} \times 0.225 = \text{lb}$$

$$\text{N/mm} \times 5.71 = \text{lb/in}$$

$$\text{N/mm}^2 \times 145 = \text{psi}$$

$$\text{MPa} \times 145 = \text{psi}$$

$$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$$

$$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$$

$$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$$

$$\text{mPa}\cdot\text{s} = \text{cP}$$

**Note**

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Reference 1.1