December 2010



PRODUCT DESCRIPTION

LOCTITE[®] 587™ provides the following product

characteristics:	
Technology	Silicone
Chemical Type	Oxime silicone
Appearance (uncured)	Metallic blue paste ^{LMS}
Components	One component - requires no mixing
Thixotropic	Reduced migration of liquid product after application to substrate
Cure	Room temperature vulcanizing (RTV)
Application	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[®] 587TM 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[®] 587TM 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.

NSF International

Registered to NSF Category P1 for use as a sealant where there is no possibility of food contact in and around food processing areas. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

UL Classification

Classified by Underwriters Laboratories Inc.[®] **E257711** -Plastics & Components. Please visit the UL website for additional information. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.28 to 1.33 ^{LMS}	
Extrusion Rate, g/min:		
Pressure 0.62 MPa, time 15 seconds, temperature 25 °C:		
Semco Cartridge	250 to 600 ^{LMS}	

Flow, ISO 7390, mm:	
After 2 minutes @ 25 °C	≤12.7 ^{LMS}
Flash Point - See MSDS	

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TYPICAL CURING PERFORMANCE

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urface Cure	
Tack Free Time, minutes:	
Cured @ 25 °C / 50±5 % RH	10 to 50 ^{LMS}

TYPICAL PROPERTIES OF CURED MATERIAL

Cured for 7 days @ 25 °C / 50±5 % RH Physical Properties: Tensile Strength, ISO 37 N/mm² ≥1.6^{LMS} (psi) (≥232) Elongation, ISO 37, % ≥350^{LMS} Shore Hardness, ISO 868, Durometer A 26 to 40^{LMS}

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[®] 587[™] 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[®] 587[™] as a sealant for concentrated solutions of acetic, hydrochloric, nitric or sulfuric acids.

Loctite Material Specification^{LMS}

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

 $(^{\circ}C \ge 1.8) + 32 = ^{\circ}F$ kV/mm $\ge 25.4 =$ V/mil mm / 25.4 = inches μ m / 25.4 = mil N $\ge 0.225 =$ lb N/mm $\ge 5.71 =$ lb/in N/mm² $\ge 145 =$ psi MPa $\ge 145 =$ psi MPa $\ge 145 =$ psi N·m $\ge 8.851 =$ lb·in N·m $\ge 0.738 =$ lb·ft N·mm $\ge 0.142 =$ oz·in mPa·s = cP

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

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Reference 1.3