**PRODUCT DESCRIPTION**

**LOCTITE® 598™** provides the following product characteristics:

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology</strong></td>
<td>Silicone</td>
</tr>
<tr>
<td><strong>Chemical Type</strong></td>
<td>Oxime silicone</td>
</tr>
<tr>
<td><strong>Appearance (uncured)</strong></td>
<td>Metallic black paste</td>
</tr>
<tr>
<td><strong>Components</strong></td>
<td>One component - requires no mixing</td>
</tr>
<tr>
<td><strong>Thixotropic</strong></td>
<td>Reduced migration of liquid product after application to substrate</td>
</tr>
<tr>
<td><strong>Cure</strong></td>
<td>Room temperature vulcanizing (RTV)</td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td>Gasketing</td>
</tr>
<tr>
<td><strong>Flexibility</strong></td>
<td>Enhances load bearing &amp; shock absorbing characteristics of the bond area.</td>
</tr>
<tr>
<td><strong>Specific Application</strong></td>
<td>Gasket replacement or Gasket dressing</td>
</tr>
<tr>
<td><strong>Specific Benefit</strong></td>
<td>Excellent resistance to automotive engine oils</td>
</tr>
</tbody>
</table>

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

- Specific Gravity @ 25 °C: 1.27 to 1.32
- Extrusion Rate, g/min:
  - Pressure 0.62 MPa, time 15 seconds, temperature 25 °C: 220 to 550
  - Semco Cartridge
- Flow, ISO 7390, mm:
  - After 3 @ 25 °C ≤13
- Flash Point - See MSDS
- Odor: No Acetic Odor

**TYPICAL CURING PERFORMANCE**

**Surface Cure**

- Tack Free Time, minutes: ≤25
- Cured @ 25 °C / 50±5 % RH: ≤25

**TYPICAL PROPERTIES OF CURED MATERIAL**

- Cured for 7 days @ 25 °C / 50±5 % RH
- **Physical Properties:**
  - Tensile Strength, ISO 37 N/mm² (psi) ≥1.3 (≥190)
  - Elongation, ISO 37, % ≥325
  - Shore Hardness, ISO 868, Durometer A 26 to 40

**TYPICAL ENVIRONMENTAL RESISTANCE**

The product retains effective properties in contact with automotive fluids, such as motor oil, transmission fluids, alcohol and antifreeze solutions.

**NOTE:** Not recommended for parts in contact with gasoline.

**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.

**NOTE:** LOCTITE® 598™ is not recommended for use as a cylinder head gasket or head gasket sealant.

**Loctite Material Specification**

LMS dated August 12, 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

\[(°C \times 1.8) + 32 = °F\]

\[kV/mm \times 25.4 = V/mil\]

\[mm / 25.4 = inches\]

\[\mu m / 25.4 = mil\]

\[N \times 0.225 = lb\]

\[N/mm \times 5.71 = lb/in\]

\[N/mm^2 \times 145 = psi\]

\[MPa \times 145 = psi\]

\[N\cdot m \times 8.851 = lb\cdot in\]

\[N\cdot m \times 0.738 = lb\cdot ft\]

\[N\cdot mm \times 0.142 = oz\cdot in\]

\[mPa\cdot s = cP\]

Note
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Reference 1.2