

PRODUCT DESCRIPTION

LOCTITE® SI 5363 provides the following product characteristics:

Technology	Silicone
Chemical Type	Oxime silicone
Appearance (uncured)	Black paste
Components	One component - requires no mixing
Viscosity	Paste
Cure	Room temperature vulcanizing (RTV)
Application	Sealing
Specific Benefits	Excellent resistance to automotive engine oils

LOCTITE® SI 5363 cures on exposure to moisture in the air to form a tough, flexible, silicone rubber gasket. This product resists aging, weathering and thermal cycling without hardening, shrinking or cracking. Typical applications include oil pans, transmission pans, valve covers, valves and guides, timing gear covers, and differential covers. This product is typically used in applications with an operating range of -54 °C to 260 °C.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 23°C	1.3
Extrusion Rate, g/min Pressure 0.62 MPa, @25°C Semco Cartridge	350

TYPICAL CURING PERFORMANCE

Skin Over Time

Skin over time is the time the surface of the adhesive forms a skin upon exposure to atmospheric moisture at 23°C/ 50% RH.

Skin Over Time, minutes Cured @ 23 °C/50% RH	25
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TYPICAL PERFORMANCE OF CURED MATERIAL

Cured for 1 week @ 23°C / 50% RH

Physical Properties:

Shore Hardness, ISO 868, Durometer A	33
Elongation at break, ISO 37, %	325
Tensile Strength , ISO 37	N/mm ² 1.3 (psi) (190)

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 Safety Data Sheet (SDS).

Directions for use:

1. For best performance, the surfaces should be clean and free from grease.
2. 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.
3. Full performance properties will develop over 72 hours.
4. The product should be allowed to cure (e.g. 7 days), before subjecting to heavy service loads.
5. Excess material can be easily wiped away with non-polar solvents.
6. For fully automatic applications a volumetric dispensing system is recommended.

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 Henkel representative.

Product Specification

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Approval and Certificate

Please contact your local Henkel representative for related approval or certificate of this product.

Data Ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23 °C / 50% RH = 23±2 °C / 50 ±5% RH

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Disclaimer

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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