

# LOCTITE® SI 5972™

Known as LOCTITE® 5972™  
May 2014

## PRODUCT DESCRIPTION

LOCTITE® SI 5972™ provides the following product characteristics:

|                         |  |
|-------------------------|--|
| <b>Technology</b>       | Solvent based  |
| <b>Chemical Type</b>    | Resin / Isopropanol / Fillers  |
| <b>Appearance</b>       | Gray liquid <sup>LMS</sup>   |
| <b>Components</b>       | One part - requires no mixing  |
| <b>Viscosity</b>        | Very high  |
| <b>Cure</b>             | Solvent evaporation  |
| <b>Application</b>      | Gasketing or Sealing   |
| <b>Product Benefits</b> | <ul style="list-style-type: none"> <li>• Easy application</li> <li>• Increases reliability at high temperatures</li> <li>• Cuts repair time</li> <li>• Reduces breakdowns</li> <li>• Resistant to wide range of oils, fuels, lubricants and chemicals</li> <li>• Seals pressures up to 34 MPa</li> </ul> |

LOCTITE® SI 5972™ is a slow drying viscous paste. It remains pliable and flexible and is designed to seal flanges, threaded connections and fasteners at temperatures from -45 °C to +315 °C. It can be effectively applied to cork, paper, plastic and metal surfaces.

Typical applications include sealing gaskets, flanges and threaded connections, aircraft heating systems, manifolds, pipe fittings, steam lines, gear boxes and cover plates.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C 1.1

Viscosity, Brookfield - RVT, 25 °C, mPa·s (cP):

Spindle 7., speed 10 rpm, 75,000 to 110,000<sup>LMS</sup>

Flash Point - See SDS

## 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. Clean and dry all surfaces.
2. Apply LOCTITE® SI 5972™ onto both surfaces and spread with spatula or putty knife.
3. Assemble parts immediately while still wet. Secure or tighten to recommended torque specifications.
4. Allow 3 to 5 hours before using equipment.
5. Re-torque will not be necessary after the product has cured.

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

LMS dated May 21, 2003. 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 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

## Note:

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

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#### Reference 1.1