

# LOCTITE® SI 7657™

Known as LOCTITE® Copper Hi-Temp Gasket Sealant Spray  
June 2016

## PRODUCT DESCRIPTION

LOCTITE® SI 7657™ provides the following product characteristics:

<b>Technology</b>	Phenolic Copper Based
<b>Chemical Type</b>	Phenolic
<b>Appearance</b>	Gold mist <sup>LMS</sup>
<b>Cure</b>	Air dry
<b>Application</b>	Sealing
<b>Specific Benefit</b>	<ul style="list-style-type: none"> <li>Remains tacky indefinitely</li> <li>Fills surface imperfections</li> <li>Resists shop fluids, including gasoline</li> </ul>

LOCTITE® SI 7657™ is an aerosol product formulated as an adhesive/sealant which helps dissipate heat and prevents gasket burnout. Typical applications include cylinder head gaskets, exhaust manifold gaskets, turbo charger flanges, and carburetor gaskets. LOCTITE® SI 7657™ contains metallic copper to improve heat transfer and eliminate hot spots. This product is typically used in applications with an operating range of -46 °C to 260 °C (-50F to 500F).

## TYPICAL PROPERTIES

Specific Gravity @ 25 °C	0.8
Flash Point - See SDS	
Viscosity @ 22°C, mPa·s (cP)	
Solids/Non-Volatile Content, %	14.1 to 16.1 <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 Safety Data Sheet (SDS).

## Directions for use:

1. Provide adequate ventilation.
2. Ensure all surfaces are free of any dirt and oil.
3. Mask areas that should not be coated.
4. Shake can with ball agitator thoroughly for 1 minute before use.
5. Best results are obtained when the product is at room temperature.
6. Spray an even coat of LOCTITE® SI 7657™ from a distance of about 20 to 25 cm onto the flange surface and on both sides of the gasket.
7. Avoid overspray.

8. Allow LOCTITE® SI 7657™ to fully evaporate from parts prior to bonding to avoid solvent entrapment within the bond joint.
9. **NOTE:** Aerosol product will coat 10 to 12 standard gaskets.

## Clean-up

1. Turn can upside-down and spray to clear nozzle.
2. Clean hands with hand cleaners.

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

LMS dated January 16, 2002. 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

The product is classified as flammable and must be stored in an appropriate manner in compliance with relevant regulations. Do not store near oxidizing agents or combustible materials. Store product in the unopened container in a dry location. Storage information may also be indicated on the product container labelling.

**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 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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\mu\text{m} / 25.4 = \text{mil}$   
 $\text{N} \times 0.225 = \text{lb}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{N/mm}^2 \times 145 = \text{psi}$   
 $\text{MPa} \times 145 = \text{psi}$   
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$   
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$   
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$   
 $\text{mPa}\cdot\text{s} = \text{cP}$

## Note:

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

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Reference 0.1