

# LOCTITE ABLESTIK 56CJ

December 2020

## PRODUCT DESCRIPTION

LOCTITE ABLESTIK 56CJ provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance (Resin)</b>	Silver paste
<b>Product Benefits</b>	<ul style="list-style-type: none"><li>• Two component</li><li>• Low electrical resistance</li><li>• Low temperature cure</li></ul>
<b>Application</b>	Electrically Conductive Adhesive
<b>Key Substrates</b>	Metals , Glass, Ceramics and Plastics

LOCTITE ABLESTIK 56CJ adhesive is designed to make electrical connections where hot soldering is impractical and at locations or substrates which cannot be subjected to high temperatures.

This material is formulated to yield high temperature properties when used with LOCTITE CAT 11

LOCTITE ABLESTIK 56CJ can be used with LOCTITE CAT 9 or LOCTITE CAT 11

## CATALYST DESCRIPTION

LOCTITE CAT 9 provides the following product characteristics:

<b>Product Benefits</b>	<ul style="list-style-type: none"><li>• General purpose</li><li>• Good chemical resistance</li><li>• Good physical strength</li></ul>
<b>Cure</b>	Heat cure
<b>Mix Ratio, by weight - Material: Catalyst</b>	40 : 1

LOCTITE CAT 11 provides the following product characteristics:

<b>Product Benefits</b>	<ul style="list-style-type: none"><li>• Long pot life</li><li>• Excellent chemical resistance</li><li>• Good physical and chemical properties at elevated temperatures</li></ul>
<b>Cure</b>	Heat cure
<b>Mix Ratio, by weight - Material: Catalyst</b>	30 : 1

## TYPICAL UNCURED PROPERTIES

### LOCTITE ABLESTIK 56CJ

Filler Content, as supplied, ASTM D1579, g/cm <sup>3</sup>	80
Density, ASTM-D-792, g/cm <sup>3</sup>	3.45
Shelf Life - Refer to package label	
Flash Point - See SDS	

## TYPICAL CURING PERFORMANCE

### Cure Schedule

#### LOCTITE ABLESTIK 56CJ with LOCTITE CAT 9

2 hours @ 50°C

Cure can also be accomplished within a few minutes at 65 to 90°C. Cure at a temperature of 65°C or above is preferred for low resistivity.

#### LOCTITE ABLESTIK 56CJ with LOCTITE CAT 11

8 hours @ 80°C or

1 hour @ 120°C

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties

Thermal Conductivity , ASTM D2214, W/(m-K)	3.0
Operating temperature range, ASTM-D794, °C:	
with LOCTITE CAT 9	-60 to 120
with LOCTITE CAT 11	-60 to 175

### Electrical Properties

Volume Resistivity , ohms-cm	1.3×10 <sup>-3</sup>
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## TYPICAL PERFORMANCE OF CURED MATERIAL

### Miscellaneous

Tensile Lap Shear Strength	N/mm <sup>2</sup>	4.5
	(psi)	(650)
Flexural Strength	N/mm <sup>2</sup>	75
	(psi)	(10,880)

## GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

**Directions for Use**

1. Complete cleaning of the components and substrates should be performed to remove contamination such as dust, moisture, salt and oils which can cause electrical failure, poor adhesion or corrosion in an embedded part
2. Curing with LOCTITE CAT 11 results in optimum high temperature properties but somewhat yields poorer electrical conductivity.
3. Thinning of LOCTITE ABLESTIK 56CJ with a small amount of Toluene (10% by weight maximum) can be used where a thin film is applied. Solvent must be evaporated to assure low resistance. The solvent can be added to the catalyst for ease of use.

**Storage**

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

**Optimal Storage : 18 to 25 °C**

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.

**Not for product specifications**

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

**Conversions**

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

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Reference **N/A**