

# **LOCTITE ABLESTIK 57C**

March 2020

#### PRODUCT DESCRIPTION

LOCTITE ABLESTIK 57C provides the following product characteristics:

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Technology	Ероху	
Appearance,Resin	Silver	
(Part A)		
Appearance, Hardener	Silver	
(Part B)		
Components	Two components - requires mixing	
Mix Ratio by weight:	100 : 100	
Part A: Part B		
Mix Ratio by volume:	100 : 100	
Part A: Part B		
Product Benefits	Electrically conductive	
	<ul> <li>Thermally conductive</li> </ul>	
	Thixotropic	
	Ease of use	
	Good bond strength	
Cure	Room temperature cure	
Application	Assembly	
Operating Temperature	-60 to 120°C	

LOCTITE ABLESTIK 57C adhesive is designed to make electrical connections where hot soldering is impractical and room temperature cure is required.

# TYPICAL PROPERTIES OF UNCURED MATERIAL

	Part	Α	Pro	perties
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Density, g/cm³	3.5		
Shelf Life - See C of A or Label on packaging			
Flash Point - See SDS			
Part P Proportion			
Part B Properties			
Density, g/cm³	3.1		
Shelf Life - See C of A or Label on packaging			
Flash Point - See SDS			
Mixed Properties			
Density, g/cm³	3.5		
Working Time, 100 g mass, @ 25 °C, minutes	60		

# TYPICAL CURING PERFORMANCE

# **Cure Schedule**

16 to 24 hours @ 25°C 3 hours @ 65°C 45 minutes @ 100°C

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

#### TYPICAL PROPERTIES OF CURED MATERIAL

# **Physical Properties**

Thermal Conductivity , W/(m-K)		7.2
Flexural Strength	N/mm²	. •
	(psi)	(10,200)

## **Electrical Properties**

Volume Resistivity @ 25°C, ohm-cm 0.0006

#### **Outgassing Properties**

Outgassing , per NASA Reference Publication 1124, %:
Sample cured 7 days @ 25°C
TML 0.52
CVCM 0.04

#### TYPICAL PERFORMANCE OF CURED MATERIAL

#### Miscellaneous:

Tensile Lap Shear Strength @ 25°C:		
Aluminum to Aluminum	N/mm²	4.8
	(psi)	(700)

## **GENERAL INFORMATION**

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

# **DIRECTIONS FOR USE**

- Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
- Some separation of components is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.
- Accurately weigh resin and hardener into a clean container in the recommended ratio. Weighing apparatus having an accuracy in proportion to the amounts being weighed should be used.
- 4. Blend components by hand, using a kneading motion, for 2 to 3 minutes. Scrape the bottom and sides of the mixing container frequently to produce a uniform mixture.
- 5. Apply adhesive to all surfaces to be bonded and join together.
- 6. In most applications only contact pressure is required.



#### STORAGE:

Store in original, tightly covered containers in clean, dry areas. Storage information may be indicated on the product container labeling.

# Optimal Storage: 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 Technical Service Center or Customer Service 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

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$   $kV/mm \times 25.4 = V/mil$  mm / 25.4 = inches  $N \times 0.225 = lb/F$   $N/mm \times 5.71 = lb/in$   $psi \times 145 = N/mm^2$   $MPa = N/mm^2$   $N \cdot m \times 8.851 = lb \cdot in$   $N \cdot m \times 0.738 = lb \cdot ft$   $N \cdot mm \times 0.742 = oz \cdot in$  $mPa \cdot s = cP$ 

## Disclaimer

#### Note:

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