

# **LOCTITE ABLESTIK 8370C**

October 2014

# PRODUCT DESCRIPTION

LOCTITE ABLESTIK 8370C provides the following product characteristics:

Technology	Ероху
Appearance	Gold Brown
Cure	Heat cure
Product Benefits	Electrically conductive
Application	Die attach
Filler Type	Gold

LOCTITE ABLESTIK 8370C adhesive is designed for automatic dispensing operations, where silver migration is a concern.

#### TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	5.5	
Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):		
Speed 5 rpm	18,000	
Work Life @ 25°C, days	2	
Shelf Life @ -40°C (from date of manufacture), days	365	

# TYPICAL CURING PERFORMANCE

#### **Cure Schedule**

1 hour @ 150°C

# Weight Loss on Cure

0 x 10 mn	n Si die on glass slide. %	0.5

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

Volume Resistivity, ohms-cm

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Coefficient of Thermal Expansion , TMA expansion mode:			
Below Tg, ppm/°C 35			
Above Tg, ppm/°C 115			
Glass Transition Temperature, TMA penetration, °C 82			
Extractable Ionic Content, @ 100°C for 24 hours, ppm:			
Chloride (CI-) 25			
Sodium (Na+) 10			
Potassium (K+) 5			
pH 5.5			
Thermal Conductivity , Laser Flash, W/(m-K) 4.9			
Water Extract Conductivity, µmhos/cm 5			
Weight Loss @ 300°C, TGA, % 0.5			
Floatrical Dramartica			
Electrical Properties			

# TYPICAL PERFORMANCE OF CURED MATERIAL

# **Shear Strength**

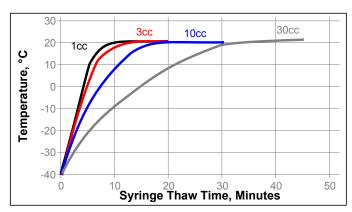
Die Shear Strength @ 25 °C: 2 X 2 mm (80 x 80 mil) Au to Au, kg-f/die	14.5
Lap Shear Strength @ 25°C:	N/mm² 8.0
Al to Al	(psi) (1,200)

#### **GENERAL INFORMATION**

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

#### THAWING:

- 1. Allow container to reach room temperature before use.
- 2. After removing from the freezer, set the syringes to stand vertically while thawing.
- 3. Refer to the Syringe Thaw time chart for the thaw time recommendation.
- DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
- DO NOT re-freeze. Once thawed to -40°C, the adhesive should not be re-frozen.



# **DIRECTIONS FOR USE**

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- 1. Thawed adhesive should immediately be placed on dispense equipment for use.
- If the adhesive is transferred to a final dispensing reservoir, care must be exercised to avoid entrapment of contaminants and/or air into the adhesive.
- 3. Adhesive must be completely used within the products recommended work life.
- Silver-resin separation may occur if the adhesive is left out at 25°C beyond the recommended work life.



#### 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.

#### Storage

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

Optimal Storage: -40 °C. Storage below minus (-)40 °C or greater than minus (-)40 °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 N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa = N/mm² 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

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# Note:

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