

# LOCTITE ABLESTIK 970-1N1

May 2017

## PRODUCT DESCRIPTION

LOCTITE ABLESTIK 970-1N1 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Blue
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• General purpose</li> <li>• Sag resistant</li> <li>• Excellent bond strength</li> </ul>
<b>Cure</b>	Heat cure
<b>Application</b>	General assembly

LOCTITE ABLESTIK 970-1N1 is a general purpose adhesive which develops high strength on a wide range of substrates.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Mixed Viscosity, Brookfield CP52, mPa·s (cP):	
Speed 2.5 rpm	60,400
Thixotropic Index (1/10 rpm)	2.0
Work Life @ 25°C, minutes	90
Flash Point - See SDS	

## TYPICAL CURING PERFORMANCE

### Cure Schedule

- 2 hours @ 70°C or
- 30 minutes @ 100°C

The above cure profile is a guideline recommendation. 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

Hardness, Shore D	75
Specific Gravity, cured	1.06
Glass Transition Temperature (T <sub>g</sub> ), °C:	
TMA @ 20°C/minute	83.0
Coefficient of Expansion, ppm/°C:	
Alpha 1	60.0

## TYPICAL PERFORMANCE OF CURED MATERIAL

### Shear Strength

Lap Shear Strength :		
Alum to Alum (2 hours@ 70 °C)	N/mm <sup>2</sup>	20.7
	(psi)	(3,000)

## GENERAL INFORMATION

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

## DIRECTIONS FOR USE

1. Carefully clean and dry all surfaces to be bonded.
2. Apply this completely mixed adhesive to the prepared surfaces, and gently press these surfaces together. Contact pressure is adequate for strong, reliable bonds; however, maintain contact until adhesive is completely cured.
3. 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.
4. Some ingredients in this formulation may crystallize when subjected to low temperature storage. A gentle warming cycle of 50°C for 30 minutes prior to mixing components may be necessary. Crystallized epoxy components do not react as well as liquid components and should be redissolved prior to use for best results.

## 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 -40°C or above -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

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

## Disclaimer

### 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 and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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