

LOCTITE ABLESTIK 16-1

June 2021

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 16-1 provides the following product characteristics:

Technology	Ероху			
Appearance	Silver			
Cure	Heat cure and Room temperature cure			
Product Benefits	Two component			
	Electrically conductive			
	Room temperature cure			
	Good adhesion			
	 Low volume resistivity 			
Application	General assembly			
Filler Type	Silver			

LOCTITE ABLESTIK 16-1 epoxy adhesive is designed for general purpose applications. This adhesive cures at room temperature, while providing a reasonable work life.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Work Life @ 25°C, hours	2	
Shelf Life @ -40 °C (from date of manufacture), days	183	
Flash Point - See SDS		

TYPICAL CURING PERFORMANCE

Cure Schedule

30 minutes @ 95°C

Alternate Cure Schedule

1hour @ 65°C or 24 hours @ 25°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

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	Hardness, Shore D	85
	Coefficient of Thermal Expansion, , TMA:	
	Below Tg, ppm/°C	70
	Above Tg, ppm/°C	300
	Glass Transition Temperature(Tg), °C	57
	Thermal Conductivity @ 121°C, W/(m-K)	2.0
	Weight Loss , TGA, %:	
	@ 150°C	0.1
	@ 250°C	0.7

Electrical Properties

Volume Resistivity, ohms-cm ≤0.005

TYPICAL PERFORMANCE OF CURED MATERIAL

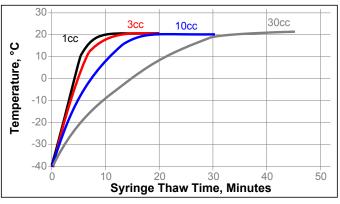
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Lap Shear Strength:			
Al to Al @ 25°C		N/mm²	6.89
		(psi)	(1,000)
Au to Au @ °C		N/mm²	8.27
		(psi)	(1,200)

GENERAL INFORMATION

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

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

- 1. Apply adhesive as required.
- 2. Assemble bonds.
- 3. Cure at one of the recommended cure schedules.
- 4. For best results, it is recommended the adhesive be used within 2 hours after removal from freezer.

AVAILABILITY

1. LOCTITE ABLESTIK 16-1 this adhesive is available premixed and frozen in a variety of sizes or in pound kits.



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 Henkel Representative.

Conversions

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb/F N/mm x 5.71 = lb/in psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = 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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Reference 0.4