

LOCTITE ABLESTIK XCP 3302NS

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PRODUCT DESCRIPTION

LOCTITE ABLESTIK XCP 3302NS provides the following product characteristics:

Technology	Ероху	
Appearance	Gold	
Product Benefits	High reliability	
	 Use with standard equipment 	
	 8-hour open time after dispense 	
	 Long work life 	
	 Thermally conductive 	
	 Electrically conductive 	
	 Passes NASA outgassing 	
Cure	Heat cure	
Application	Assembly	
Typical Assembly Applications	Bonding power die to gold-plated substrates	

LOCTITE ABLESTIK XCP 3302NS gold filled, electrically conductive adhesive is designed for automatic dispensing operations.

LOCTITE ABLESTIK XCP 3302NS is the no spacer version of LOCTITE ABLESTIK XCP 3302 adhesive.

LOCTITE ABLESTIK XCP 3302NS passes NASA outgassing standards.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):					
Speed 20 rpm	10,000				
Work Life@ 25°C, hours	67				
Out Time @ 25°C, hours	7.5				
Shelf Life @ -40°C (from date of manufacture), months	6				
Flash Point - See SDS					

TYPICAL CURING PERFORMANCE Cure Schedule

2hours @ 170°C

Weight Loss on Cure

Weight Loss on Cure, %

<2

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

Coefficient of Thermal Expansion, :

	Below Tg, 10 ⁻⁶ /°C		25	
	Above Tg, 10 ⁻⁶ /°C		125	
	Glass Transition Temperature, °C		115	
	Tensile Modulus:			
	@ -40°C	N/mm² (psi)	6,200 (900,000)	
	@ 25°C	N/mm² (psi)	5,400 (780,000)	
	@ 100°C	N/mm² (psi)	3,900 (565,000)	
	@ 175°C	N/mm² (psi)	120 (17,000)	
	Thermal Conductivity , W/(m-K)		1.75	
Electrical Properties				
	Volume Resistivity @ 25°C, ohm-cm		0.0006	

TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength@ 25°C:

2 X 2 mm (80 x 80 mil) Au plated kovar die on Au 8 plated alumina, kg/die

TYPICAL ENVIRONMENTAL RESISTANCE

Outgassing Properties:

 Outgassing , NASA Outgassing:
 0.18

 TML, %
 0.01

 CVCM, %
 0.01

 WVR, %
 0.03

GENERAL INFORMATION

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

THAWING:

- 1. After removing from the freezer, set the syringes to stand vertically while thawing.
- 2. Allow container to reach room temperature before use.
- DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the warmed up container should be removed prior to opening the container.
- DO NOT re-freeze. Once thawed, the adhesive should not be re-frozen.
- 5. DO NOT thaw in an oven.

DIRECTIONS FOR USE

A 22 gage or larger needle is recommended for this adhesive.
 This will minimize clogging due to agglomerates that may form.

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

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/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 0.3