

ALPHA® HITECH™ CU13-3150

Low Viscosity Underfill

DESCRIPTION

ALPHA HiTech CU13-3150 is a one-component low temperature thermal cure capillary underfill. It is designed for low temperature applications requiring enhanced mechanical strength for assembled chip packages onto printed circuit boards.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Low Viscosity
- Fast Cure at Low Temperature
- Excellent Adhesion
- Excellent Drop Shock
- Reworkable
- Halogen Free
- Complies with RoHS Directive 2011/65/EU

APPLICATION GUIDELINES

Storage	Thawing	Application	Curing
	 Remove the syringe from the freezer. 	3150 can be effectively dispensed at development cure at 80 °C and hold for	
1. Store at <-20 °C to guarantee	Set aside at room temperature for 2 hours.		
product stability.	 Do not open the cap before the product is sufficiently thawed. 		For full property development, cure at 80 °C
Upright Position, tip facing the bottom	 Product should not be refrozen after thawed. 		
	5. To prevent contamination of unused product, do not return any material to its original container.		`







TECHNICAL DATA

Category	Specification		
Typical Uncured Material Properties			
Chemistry	Ероху		
Appearance	Black		
Viscosity (RVDV-II Brookfield #3, 20 rpm @25 °C, cP)	1000 to 3000		
Specific Gravity	1.1 to 1.2		
Flashpoint, °C	>200		
Pot Life @ 25 °C, days	3		
Shelf Life at < -20 °C, months	6		
Available Packaging	10cc, 30cc syringe		
Typical Cured Materials Properties			
Glass Transition (Tg), °C via TMA	47 ± 5		
CTE (α ₁), <tg, ppm<="" td=""><td>50 ± 10</td></tg,>	50 ± 10		
CTE (α_2), >Tg, ppm	200 ± 20		
Hardness (Shore D)	50 to 60		

TECHNICAL BULLETIN



SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at AlphaAssembly.com**

CONTACT INFORMATION

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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