ALPHA® HITECH® CF41-20000S-B(L)

Edgebond Epoxy

DESCRIPTION

ALPHA HiTech CF41-20000S-B(L) is a one-component edgebond epoxy system. It is designed to provide protection to the solder joint during mechanical stress. The product is designed to be cured during the solder paste reflow process without requiring any additional curing step after the reflow process, making it ideal for production processes with high throughput requirements. It provides the user with a balance set of the following features and benefits:

- Edgebond is cured during Pb-free reflow condition >245 °C
- Excellent adhesion
- Halogen-free
- Complies with RoHS Directive 2011/65/EU

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

APPLICATION GUIDELINES

Storage	Thawing	Application	Curing
1. Store at 1 to 10 °C to guarantee product stability 2. Upright Position, tip facing the bottom 	1. Remove the syringe from the freezer. 2. Set aside at room temperature for 2 hours. 3. Do not open the cap before the product is sufficiently thawed. 4. Product should not be refrozen after thawed. 5. To prevent contamination of unused product, do not return any material to its original container.	**ALPHA HiTech CF41-20000S-B(L)** can be effectively dispensed at room temperature condition.	For full property development, cure along with any Pb-free solder paste at reflow conditions above 245 °C.

TECHNICAL DATA

Category	Specification
Typical Uncured Material Properties	
Chemistry	Epoxy
Appearance	Blue Paste
Viscosity (Malcom PC-10A, 30rpm @25 °C, cP)	17,000 to 22,000
Thixotropic Index	5.5 to 6.5
Specific Gravity	1.1 to 1.2
Pot Life @ 25 °C, days	3
Shelf Life at 1 to 10 °C, months	3
Available Packaging	10cc & 30cc syringe

Category	Typical Values
Typical Cured Materials Properties	
Glass Transition (Tg), °C via DSC	69
CTE (α_1), <Tg, ppm	61
CTE (α_2), >Tg, ppm	208
Hardness (Shore D)	70 to 80

Note: The values on the table are intended as a reference. They are not absolute values.

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.**

CONTACT INFORMATION

www.macdermidalpha.com

North America	**Europe**	**Asia**
140 Centennial Avenue Piscataway, NJ 08854 1.800.367.5460	Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400	8/F., Two Sky Parc 51 Hung To Road Kwun Tong, Kowloon, Hong Kong, SAR China 852.2500.5365

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

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY IS MADE. The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory. Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any noncompliant product at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct, indirect, incidental or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect, incidental and consequential damages that may result from use of the products under such conditions, and agrees to exonerate, indemnify, defend and hold harmless MacDermid, Incorporated and its affiliates therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in a manner that infringes any patent or other intellectual property rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

© 2019 MacDermid, Inc. and its group of companies. All rights reserved. "(R)" and "TM" are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.