Jul 26 2007 1:39PM

07-26-'07 13:31 FROM-Atlas Supply Inc.

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T-709 P003/004 F-370

Vantico

Vantico Inc.

Adhesives & Tooling 4917 Dawn Avenue

East Lansing, MI 48823 517.351.5900

5121 San Fernando Road West Los Angeles, CA 90039 818.247.6210

Product Data

CG-1305 Resin/Hardener

- Medium Density Syntactic
- High Strength
- Pourable

DESCRIPTION

CG-1305 R/H is a medium density pourable syntactic for aircraft production and other industrial applications where high strength, low weight materials are utilized. This system combines good handling with excellent physical properties to assure dependable finished products. This material has been designed for reinforcing high stress areas in honeycomb structures or for potting applications where both protection and light weight are essential. CG-1305 R/H is qualified to BMS 5-28, Type 7, Class 1.

TYPICAL PROPERTIES AS RECEIVED

<u>Resin</u>	<u>Hardener</u>	Mixed	Test Method
White	Amber	Off-White	Visual
0.82	0.98	0.90 max.	ASTM-D-792
90,000	450	21,500	ASTM-D-2196
		>60 min.	ASTM-D-2471
12	12		
	0.82 90,000 	White Amber 0.82 0.98 90,000 450	White Amber Off-White 0.82 0.98 0.90 max. 90,000 450 21,500 >60 min.

MIX RATIO

To 100 parts by weight of CG-1305 resin, add 20 parts by weight of CG-1305 hardener. Mix both components thoroughly for several minutes to insure complete and uniform mixing.

CURE SCHEDULE

Cure #1 - 7 Days @ 77°2°F

*Cure #2 - Gel @ Room Temperature + 90 minutes @ 260°10°F

Cure #3 - Gel @ Room Temperature + 60 minutes @ 350°10°F

*Optimum cure

TYPICAL CURED PROPERTIES (Not for specification purposes)

<u>Result</u>	Test Method
110000	TEST INICITION
8.50/400	ASTM-D-695
8.80/420	
9.00/450	
1500	ASTM-D-1002
1800	
1800	• •
0.30	ASTM-D-543
0.40	••
0.60	
0.50	••
3 Inches Max.	
	8.50/400 8.80/420 9.00/450 1500 1800 1800 0.30 0.40 0.60 0.50

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ENVIRONMENTAL INFORMATION

When used properly, this material is safe to handle and poses no environmental hazard. Spills should be contained with absorbent material and transferred to a closed container for disposal. Unreacted components should be handled carefully. Observe all precautionary statements that appear on the product label. Users should investigate all applicable waste regulations before disposal.

FOR PROFESSIONAL & INDUSTRIAL USE ONLY

CLEANLINESS & SAFETY

CG-1305 RESIN

WARNING! CAUSES SKIN AND EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF INHALED. HARMFUL IF SWALLOWED. Avoid contact with eyes, skin or clothing. Wear eye protection and impervious gloves when handling. Avoid breathing the vapor or mist. Keep container closed when not in use. Do not take internally.

FIRST AID! Eyes and Skin: Flush eyes with water for 15 minutes. Call a physician. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Destroy contaminated shoes. Inhalation: Remove subject to fresh air. Swallowing: Dilute by giving water to drink and contact a physician promptly. Never give anything to drink to an unconscious person.

CG-1305 HARDENER

DANGER! CORROSIVE. CAUSES EYE AND SKIN BURNS AND POSSIBLE ALLERGIC SKIN REACTION. VAPOR IRRITATING TO EYES, SKIN AND NASAL MUCOUS MEMBRANES. HARMFUL IF SWALLOWED. Do not get in eyes, on skin, or on clothing. Wear impervious gloves and splash goggles when handling. Wash thoroughly after handling. Avoid breathing the vapors. Keep container closed when not in use. Use with adequate ventilation. Do not take internally.

FIRST AID! Eyes and Skin: Flush eyes with plenty water for 15 minutes and get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Destroy contaminated shoes and other articles made of leather. Inhalation: Remove subject to fresh air. Swallowing: Dilute by giving water to drink and contact a physician promptly. Never give anything to drink to an unconscious person.

KEEP OUT OF REACH OF CHILDREN

Ciba Specialty Chemicals, Performance Polymers, maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products.

IMPORTANT: The following supercedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

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