

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>Property</u>	<u>Resin</u>	<u>Hardener</u>	<u>Mixed</u>	<u>Test Method</u>
Color	White	Amber	Off-White	Visual
Density, g/cc	0.82	0.98	0.90 max.	ASTM-D-792
Viscosity, centipoise	90,000	450	21,500	ASTM-D-2196
Gel Time, 60 g mass	--	--	>60 min.	ASTM-D-2471
Shelf life at 77°F, unopened, months	12	12	--	--

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>Test</u>	<u>Result</u>	<u>Test Method</u>
Compressive strength/modulus, Ksi		
after 7 days at 77 [±] 2°F	8.50/400	ASTM-D-695
after R.T. gel + 90 minutes @ 260 [±] 10°F	8.80/420	--
after R.T. gel + 60 minutes @ 350°F	9.00/450	--
Lap shear, AL/AL, psi		
after 7 days @ 77 [±] 2°F	1500	ASTM-D-1002
after R.T. gel + gel + 90 minutes @ 260 [±] 10°F	1800	--
after R.T. gel + 60 minutes at 350 [±] 10°F	1800	--
Weight gain % after 24 hour immersion		
TT-S-735 test fluid	0.30	ASTM-D-543
Mil-M-5606 hydraulic fluid	0.40	--
Skydrol 500	0.60	--
Distilled water	0.50	--
Flammability, Burn Rate, Inches/Minute	3 Inches Max.	--
12 second vertical burn		

CAUTION:

Huntsman 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. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material. Copies of the latest MSDS may be requested by calling our customer service group at 800-367-8793 or by faxing your request to 517-351-6255.

FIRST AID!

Eyes and skin: Flush eyes with water for 15 minutes. Contact a physician if irritation persists. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

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

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