



Product Data

CG-1305 Resin/Hardener EPOXY SYNTACTIC

- Medium Density Syntactic
- High Strength
- Pourable

DESCRIPTION

CG-1305 R/H epoxy syntactic is a medium-density, pourable material for aircraft production and other industrial applications requiring high-strength and low weight. This system combines good handling and physical properties. CG-1305 R/H epoxy syntactic is designed for reinforcing high stress areas in honeycomb structures and for potting applications. CG-1305 R/H epoxy syntactic 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, cP at 77°F (25°C)	90,000	450	21,500	ASTM-D-2196
Gel Time, 60 g mass at 77°F (25°C)	--	--	>60 min.	ASTM-D-2471
Shelf life at 77°F (25°C), 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 (25°C ±1°C)

*Cure #2 - Gel @ Room Temperature + 90 minutes @ 260±10°F (127°C±6°C)

Cure #3 - Gel @ Room Temperature + 60 minutes @ 350±10°F (177°C ±6°C)

*Optimum cure

TYPICAL CURED PROPERTIES (Not for specification purposes)

<u>Test</u>	<u>Result</u>	<u>Test Method</u>
Compressive strength/modulus, Ksi (MPa)		
after 7 days at 77±2°F (25°C±2°C)	8.5/400 (58.6/2,758)	ASTM-D-695
after R.T. gel + 90 minutes at 260±10°F (127°C±6°C)	8.8/420 (60.7/2,896)	--
after R.T. gel + 60 minutes at 350°F (177°C)	9.0/450 (62/3,103)	--
Lap shear, AL/AL, psi (MPa)		
after 7 days at 77±2°F (25°C±1°C)	1500 (10.3)	ASTM-D-1002
after R.T. gel + 90 minutes at 260±10°F (127°C±6°C)	1800 (12.4)	--
after R.T. gel + 60 minutes at 350±10°F (177°C±6°C)	1800 (12.4)	--
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, in./min. (cm/min), max. 12 second vertical burn	3 (7.6)	--

CAUTION:

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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

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

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