

Product information

AMICURE[®] CG-1400F

Curing Agent

DESCRIPTION

Amicure CG-1400F curing agent is a micronized grade of dicyandiamide containing 3,5% of an inert flow control additive to inhibit clumping and improve handling. It is designed for use as a latent curing agent for epoxy resins.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	White, crystalline particles		
Melting Point	207-212	°C	
Particle Size	D90 <10	Microns	
	D50 <5	Microns	
Nitrogen as % Dicyandiamide	99	%	
Equivalent Wt/{H}	21		
Recommended use Level	4-15	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

Finest particle size available in Amicure DICY product series for maximum reactivity

- Easily dispersed in liquid resins
- Shelf stability of up to 6 months at 25°C in properly formulated systems
- Activation temperature can be varied easily from 180°C to 95°C with appropriate accelerator selection

APPLICATIONS

- One-component adhesives
- Recreational and industrial pre-preg composites
- Powder coatings

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Amicure CG-1400F curing agent.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit
Gel Time (150g mass at 25°C)	12	month

SUGGESTED ACCELERATORS

Ancamine 2014AS/2014FG
Amicure UR2T
Imidazoles (e.g. Imicure EMI-24)
Ancamine 2441
Ancamine 2337S

TYPICAL PERFORMANCE PROPERTIES

Property	Value
T _g (°C)*	120
When accelerated with Ancamine 2014AS	115

* Measured using DSC with 10K/min ramp. Value will be higher when accelerated with an Imidazole

TYPICAL CURE SCHEDULE

- 1–2 hours at 180°C
- 30 minutes at 140°C with 2-5 parts Ancamine 2441 curing agent

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EVONIK OPERATIONS GMBH

Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers

Product Information: APCSE@evonik.com

Sample Request: APCSE@evonik.com

EVONIK CORPORATION

Business Line Crosslinkers
7201 Hamilton Blvd.
Allentown, PA 18195
USA

CrosslinkersProinfo@evonik.com

Crosslinkers-Samples@evonik.com

**EVONIK SPECIALTY CHEMICALS
(SHANGHAI) CO., LTD.**

Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

CL-Asiainfo@evonik.com

CL-Asiainfo@evonik.com

