

IMICURE® Imidazole Curing Agent

DESCRIPTION

Imicure imidazole curing agent is an elevated-temperature curing agent for epoxy resins. It is readily compatible with both liquid and solid epoxy resins, and because it is a catalytic curing agent, it is used at low loadings of 1–5 phr. It is a good accelerator for dicyandiamide, anhydride and phenolic curing agents.

BENEFITS

- Very rapid development of properties
- Excellent dicyandiamide accelerator
- Develops $T_g \approx 300^\circ\text{F}$ (150°C) in heat-cured systems

APPLICATIONS

- Adhesives
- Pre-preg composites
- Encapsulation

SHELF LIFE

At least 12 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 Imicure Imidazole curing agent.

TABLE 1: TYPICAL PROPERTIES

Appearance	White Powder
Purity (%)	99 (min)
Water (%)	<0.5 (max)
Boiling Range @ 13 mbar (°C)	136
Melting Point (°C)	88-90
Solubility	Soluble in Water and Alcohol
Density (g/ml)	0.55 0.63
Flash Point (open cup) (°C)	145
Recommended Use Level (phr, EEW=190)	1-4

TABLE 2: TYPICAL HANDLING PROPERTIES*

4 phr, ground to 80 mesh	
Pot Life @ 77°F (25°C) (200 g mass w/ 1% fumed silica) (h)	6.5
Gel Time [200g mass @ 158 °F (70°C)] (min)	20

*Imicure Imidazole curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

Epoxy Curing Agents and Modifiers

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