AC-DN1

Description

AC-DN1 is a di-anhydride blend that combines the benefits of aromatic di-anhydrides with the ease of use of liquid anhydrides. AC-DN1 provides superior physical, electrical and chemical properties, lower moisture permeability and better heat aging properties. AC-DN1 contains a proprietary imidazole accelerator. It can be used to cure epoxy novalac, cycloaliphatic and bis A resins.

This enables rapid full cure at elevated temperatures. Tg's of 150°C are readily achievable with Bis A epoxies. AC-DN1 cured epoxies maintain their physical properties in hot wet conditions.

It is designed for pultrusion applications to produce small diameter rods with high Tg superior hot wet strength retention and a high char yield upon graphitization.

It has been used to produce carbon on carbon composites as well high-tension cores for electrical transmission cables.

Typical Applications

- Pultrusion
- Filament Winding
- Resin Transfer Molding

Specifications

Appearance	Redish Brown Liquid
Viscosity, 25.C, cps	200 – 400
Anhydride equivalent weight	164

Typical Formulation

	Parts by Weight
Epoxy Resin (EEW 190)	100
AC-DN1*	81

Gel at 150° C for 2-3 Min. with a Bis A resin
(hot plate stroke cure) 120 C 5-6 minutes

*AC-DN1 contains 1% AC-PI as catalyst

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