

TECHNICAL DATA SHEET

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DYHARD® 03

Description: DYHARD® 03 is a hardener for epoxy resins based on

dicyandiamide which is specially made for the production of prepregs in the printed circuit board industry. The low turbidity gives storage stable

prepregs free of crystallization.

DYHARD® 03 is qualified for the production of printed circuit boards according to the NEMA specification FR-3, FR-4, CEM-1 and CEM-3.

Synonym: Cyanoguanidine, DCD, DCDA, Dicy

CAS-No. [461-58-5]

Specification: Dicyandiamide assay at least 99.5 %

Water content max. 0.2 %
Water insoluble matter max. 0.03 %
Melting point 209-212 °C
APHA max. 40
Turbidity max. 5.0 NTU

Physical Properties: Molecular weight 84.08

Specific gravity D₁₄ 1.404 g/cm⁻³

Appearance White, fine-crystalline powder

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Solubility: in g/100 g solvent at 20 °C

	2.2		40.0
Water	3.2	Methoxyethanol	13.0
Acetone	0.8	Ethoxyethanol	7.0
Methanol	3.8	Methoxypropanol	6.4
DMF 2	7.2	Methyl lactate	5.4

Packaging: 25 kg net paper bag (1000 kg or 1500 kg per pallet)

Storage Conditions: Two years shelf life. Normal warehouse conditions are sufficient, no

special precautions are required. Single stacking is recommended.

Caking is an inherent characteristic of dicyandiamide.

Inappropriate storage conditions may quicken the caking process. Whilst this affects the physical condition it does not affect the

chemical performance in any manner.

Stability: Dicyandiamide is stable in neutral aqueous solutions up to

temperatures of 80 °C for a short time. The compound is not hygroscopic.

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