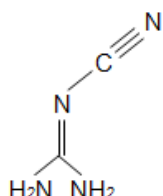


## TECHNICAL DATA SHEET

### DYHARD® 03 Pure

Description:



DYHARD® 03 pure is a high purity 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 crystallisation.

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 99.8 %
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 D <sup>14</sup>	1.404 g/cm <sup>-3</sup>
Appearance	White, fine-crystalline powder

Solubility:

in g/100 g solvent at 20 °C			
Water	3.2	Methoxyethanol	13.0
Acetone	0.8	Ethoxyethanol	7.0
Methanol	3.8	Methoxypropanol	6.4
DMF	27.2	Methyl lactate	5.4

Packaging:

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

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## TECHNICAL DATA SHEET

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**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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**Edition: 01-2018 (This data sheet supersedes all previous data sheets for this product)**