



FOUNDRY PRODUCTS: Technical Data Sheet

PRODUCT: Rapidcure Catalyst Systems – Catalysts TEA and DMEA™

DESCRIPTION:

Liquid catalysts that when vaporised, form the catalytic third part of the Rapidcure Phenolic Urethane Cold Box system.

FIELD OF APPLICATION

Cores and moulds for steel and iron castings. Triethylamine (Catalysts TEA) is particularly suitable for use with all forms of core making. Dimethylethylamine (Catalyst DMEA) is a premium product with a more efficient curing cycle. Thus it has particular use if high productivity, volume operations. Cycle times can be 20 - 60 % with DMEA than with TEA, although ultimate cure strength are typically similar. In both cases, proper equipment, safety equipment, scrubbers (or afterburners where permitted by law) are necessary for the safe and correct use of the products.

Catalyst TEA:

Property	Specification	Test Method
Triethylamine	99.7% min	GC
Water Content	0.06 % max	DIN 51777
Specific Gravity	0.720 – 0.730 g/ml at 20degC	SGmeter
Ethanol Content	0.05 % max	DIN 51757
Flashpoint	-11 deg C	DIN 51755

Catalyst DMEA:

Property	Specification	Test Method
Dimethylethylamine	99.0% min	GC
Water Content	0.10 % max	DIN 51777
Ethanol Content	0.50 % max	DIN 51757
Colour	< 10	

For information on Mancuso Chemical's Proprietary Catalyst system **SSI TMA**, please see her data sheets.

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