

CATALYST 'M'

Methyl ethyl ketone peroxide

CAS#1338-23-4

Liquid mixture

Description

CATALYST 'M' is a methyl ethyl ketone peroxide in phlegmatizer for the curing of unsaturated polyester resins at ambient temperature in combination with cobalt accelerators.

Technical Data

Appearance	Colourless and clear liquid
Active Oxygen	8.7 – 9.2%
Free hydrogen peroxide content	1.6 – 1.8%
Water Content	1.5
Flash Point	>80°C (Method: Seta closed cup)
Density at 20°C	1.12 - 1.15 g/cm ³
Viscosity at 20°C	9 - 15 mPa.s
Soluble in:	Oxygenated organic solvents
Slightly soluble in:	Water
Critical temperature (SADT)	65°C
Recommended storage temperature	Max 30°C
Maintenance of activity at 30°C as from date of delivery	6 month

Application

CATALYST 'M' is a general purpose MEKP.

CATALYST 'M' gives consistent room temperature performance with both resins and gelcoats. A reliable product of remarkable purity, CATALYST 'M' assures quality in almost every system. Suitable applications are: Hand lay-up, spray-up, RTM, continuous laminating, centrifugal casting, filament winding, polyester concrete and vacuum infusion. A single MEKP initiator formulation cannot provide optimum results in all resin systems. Evaluation of each MEKP in each resin intended for use is absolutely essential before full-scale manufacturing is attempted.

CURE CHARACTERISTICS

A reactivity test with an unsaturated polyester resin gave the following results:

Resin: Orthophthalic polyester **Temperature:** 25°C
Initiator %: 1.5 **Accelerator:** 0.5% (1% Cobalt)

Initiator	Gel time (minutes)	Time to peak (minutes)	Peak exotherm temp (°C)
CATALYST 'M'	25	61	88

Packaging

Standard packaging sizes of CATALYST 'M' are 25kg polyethylene bottles.

Health and safety

Please see separate Material Safety Data Sheets.

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