

NOROX®ENP-90

Methyl ethyl ketone peroxide
CAS#1338-23-4
Liquid mixture

Description

Colourless, mobile liquid, consisting of peroxides based on methyl ethyl ketone, essentially desensitised with aliphatic ester. This ketone peroxide is used as an initiator (radical source) in the curing of unsaturated polyester resins. Main application: curing of moulded parts at ambient temperature in combination with cobalt accelerators. Advantages: High efficiency with special pre-accelerated and stabilized resin types.

Technical Data

Appearance	Colourless and clear liquid
Active oxygen	8.6 - 9.2 %
Flash point (Seta closed cup):	> 77 °C
Density at 20 °C	1.01 g/cm ³
Viscosity at 20 °C	13 mPa.s
Soluble in :	Oxygenated organic solvents
Insoluble in:	Water
Critical temperature (SADT)	60 °C
Recommended storage temperature	Max 30 °C.
Maintenance of activity at 30 °C as from date of delivery	6 months

Application

NOROX®ENP-90 is not phlegmatized (diluted) with an phthalate like di-methyl-phthalate or di-isobutyl-phthalate as most other MEKPs on market are.

Suitable applications are: Hand lay-up, spray-up, RTM, continuous laminating, centrifugal casting, filament winding, polyester concrete, button manufacturing and vacuum infusion.

NOROX®ENP-90 gives consistent room temperature performance with both resins and gelcoats. A reliable product of remarkable purity, NOROX®ENP-90 assures quality in almost every system.

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.

Measurements

Activity:

"Cobalt Curing" after DIN 16945 at 25°C with OPA resin (20g in a test tube)						
Formulation (parts by weight)						
Medium reactive resin type (OPA)	100	100	100	100	100	100
NOROX® ENP-90	2	2	2	2	1	1
Accelerator COB-1TX	2	1	0.5	0.2	1	0.5
Curing data						
Gel time t_{gel} [min]	3.5	4.5	8.5	26.0	13.5	24.0
Curing time t_{max} [min]	17.0	19.0	25.0	53.5	40.0	59.5
Peakttemperature T_{max} [°C]	139	141	137	115	109	93

Packaging

The standard package size of NOROX®ENP-90 is 22.5 kg in polyethylene bottles.

Disclaimer

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