Technical Data Sheet



NOROX[®]ENP-92

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

Description

Colourless, mobile liquid, consisting of peroxides based on methylethylketone, essentially desensitised with aliphatic ester. This ketone peroxide is used as an initiator (radical source) in the curing of unsaturated polyester resins. Main application: casting of buttons or centrifugal casting of button sheets at ambient temperature in combination with small amounts cobalt accelerator.

Technical Data

Colourless liquid
Approx 9.9 % w/w
Aliphatic ester
Approx. 1.04 g/cm ³
Approx. 21 mPa.s
immiscible with water, miscible with ester, UP/VE-resins
Approx. 60°C
Liguid to below -25°C
below 30°C
6 months

This product is in compliance with the ElektroG (EU-Directives: RoHS 2002/95/EG, WEEE 2002/96/EG)

Application

POLYESTER CURING:

Curing agent for all UP resin types at ambient temperature in combination with cobalt accelerators. Standard dosage level: 1-3% as supplied, with 0.2 - 2% of a 1% cobalt solution.

"Shelf life" (gel time of resin + peroxide) usually only a few hours, depending on temperature and resin type. "Pot life" (gel time of resin + peroxide + accelerator) very short, even with small quantities of accelerator.

CURING PERFORMANCE:

Moderate evolution of heat, therefore curing with low internal stress, relatively long mould release times. By using minimal accelerator levels, there will be only slight discolouration in the finished part.

PROCESSING METHODS:

Especially developed for short gel times even with low levels of cobalt, i.e. especially for articles which should not show discolouration.



Suitable for such processes as casting or centrifugal casting of UP buttons or button sheets and continuous impregnation of (corrugated) sheets.

Activity:

"Cobalt Curing" after D	IN 16945	at 25°C wit	h OPA re	sin (20g	in a test tube)	
Formulation (parts by w	veight)					
Medium reactive resin type (OPA)	100	100	100	100	100	100
NOROX [®] ENP-92	2	2	2	2	1	1
Accelerator C-101	2	1	0.5	0.2	1	0.5
Curing data						
Gel time t _{gel} [min]	1.5	2.0	4.0	15.5	4.0	7.0
Curing time tmax [min]	12.5	13.0	16.0	34.0	24.5	28.5
Peaktemperature T _{max} [°C]	145	147	147	132	115	116

Standard Packaging

The standard package size of NOROX[®]ENP-92 are 5 kg and 22,5 kg polyethylene bottles.

Disclaimer

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Application and usage of our products based on our technical advice is out of our control and sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming goods in order to verify the suitability for the intended application.

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