

NOROX[®]SG-10

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

Description

NOROX[®]SG-10 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	9.7 ± 0.1 %
Free hydrogen peroxide content	3.2 ± 0.2 %
Water content	< 2.5 %
Density at 20 °C	1.12 – 1.15 g/cm ³
Viscosity at 20 °C	9 - 15 mPa.s
Flash point (Seta Flash)	> 80 °C
pH	4 - 7
Critical temperature (SADT)	65 °C
Soluble in	Oxygenated organic solvents
Slightly soluble in	Water
Recommended storage temperature	Max 30 °C.
Maintenance of activity at 30 °C as from date of delivery	6 months

Application

NOROX[®]SG-10 is a MEKP with high active oxygen and hydrogen peroxide level, which means faster gel and cure times than NOROX[®]KP-9 and NOROX[®]KP-100. NOROX[®]SG-10 gives consistent room temperature performance with both polyester resins and lacquers. A reliable product of remarkable purity, NOROX[®]SG-10 assures quality in almost every system. Suitable applications are: production of button sheets, continuous laminating, centrifugal casting and polyester concrete. Due to the high hydrogen peroxide level NOROX[®]SG-10 is not recommended to be used with gelcoats. 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.

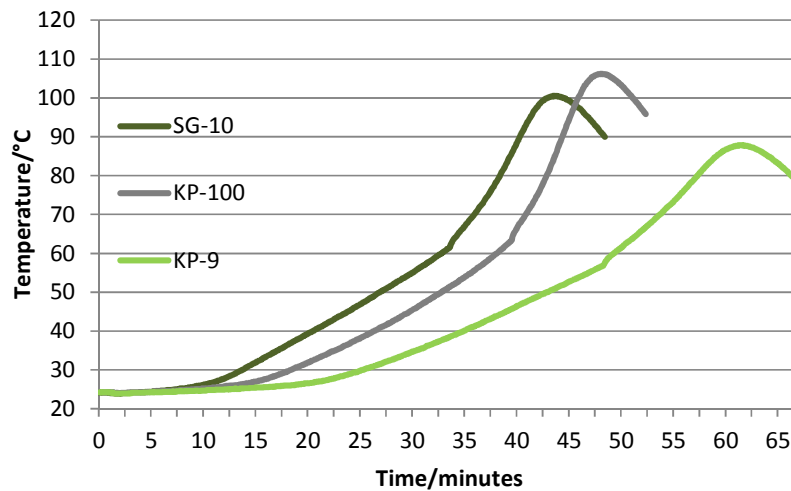
Measurements

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 Min	Time to peak min	Peak exotherm temp °C
NOROX®KP-9	25	61	88
NOROX®KP-100	18	48	106
NOROX®SG-10	13	44	101

Reactivity of NOROX® MEKPs:



Standard Packaging

The standard package sizes of NOROX®SG-10 are 5 kg and 25 kg polyethylene bottles.

Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

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.

United Initiators
EU
T: +49 89 74422 237
F: +49 89 74422 6237
cs-initiators.eu@united-in.com

United Initiators
Nafta
T: +1 800 231 2702
F: +1 440 323 0898
cs-initiators.nafta@united-in.com

United Initiators
China
T: +86 20 6131 1370
F: +86 139 2503 8952
cs-initiators.cn@united-in.com

United Initiators
Australia
T: +61 2 9316 0046
F: +61 2 9316 0034
cs-initiators.au@united-in.com

www.united-initiators.com