

NOROX[®] CHM-50

Blend based on cumenehydroperoxide
CAS#80-15-9
Liquid mixture

Description

NOROX CHM-50 is a solution of cumyl hydroperoxide in an accelerating phlegmatizer. NOROX CHM-50 is a liquid polymerization initiator for the room temperature cure of vinyl ester resins with the following advantages/properties.

- Moderate peak exotherm, typically lower than MEKPs
- Moderate gel time in vinyl ester resins
- Excellent final cure
- Low impurity levels (water, hydrogen peroxide, salts, etc.)
- No gas generation

Technical Data

Appearance	Slightly yellow and clear liquid
Active oxygen	4.3 - 4.7%
Density at 20 °C	1.04 - 1.07 g/cm ³
Soluble in :	Oxygenated organic solvents
Insoluble in:	Water
Critical temperature (SADT)	55 °C (131 °F)
Recommended storage temperature	Max 30 °C. For maximum shelf life max 25 °C
Maintenance of activity at 30 °C as from date of delivery	6 months

Application

NOROX CHM-50 is an excellent liquid polymerization initiator for the room temperature cure of standard epoxy and Novolac epoxy vinyl ester resins, when a quick cure with no gassing in the resin is desired. Gel times will be similar to high dimer NOROX[®] MEKP products (i.e., NOROX KP-925H, KP-925, etc.) but final cured resin hardness is often better than for resins initiated with MEKPs.

Technical Data Sheet

Measurements

RESIN: Epoxy vinyl ester (pre-promoted)*:

Initiator	Gel time Min	Peak Exotherm Temp °C	935 Hardness			934 Hardness 24 hr
			2 hr	3 hr	4 hr	
NOROX CHM-50	17	77	0	49	55	20
NOROX KP-925H	11	124	0	38	41	8

* Results determined by United Initiators laboratory test methods and are used for comparison only. Resin suppliers should be contacted for specific recommendations for individual resins.

Packaging

The standard package sizes of NOROX CHM-50 are 5 kg (8 lb) and 25 kg (40 lb) 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.

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