

ANDONOX CHM-30

DESCRIPTION

ANDONOX CHM-30 is a solution of cumyl hydroperoxide in an accelerating phlegmatizer. ANDONOX CHM-30 is a liquid polymerisation 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
- No toxic label

TYPICAL PROPERTIES

Active oxygen content:	2.3 – 2.6 %
Water content:	<1 %
Form:	Liquid
Appearance:	Pale Yellow to Colourless liquid
Density at 20°C:	1.08 - 1.10 g/cm ³
Viscosity at 20°C:	8 - 15 mPa.s
Flash point (Seta C.C.):	> 65°C
SADT:	55°C
Soluble in:	Oxygenated organic solvents
Insoluble in:	Water
Storage temperature:	Max 25°C

APPLICATION

ANDONOX CHM-30 is not classified as “Toxic” as ANDONOX CHM-50 and other similar Cumyl hydroperoxide type products on the market.

ANDONOX CHM-30 should be used in combination with cobalt accelerated resins. Amines can speed up the cure further but is generally not necessary to improve the cure.

The final cured resin hardness is most often better than for resins initiated with MEKP's. Dosing levels are 2,5 – 3,5 % typically depending on ambient temperature and the type and amount accelerator used.

No “gassing” is an advantage when curing vinyl ester resin in closed moulding techniques like RTM and vacuum infusion because you minimize porosity problems.

Other suitable applications are: Hand lay-up, spray-up, acrylic resins, VE-bonding pastes and filament winding.

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CURE CHARACTERISTICS

RESIN: Pre-promoted Epoxy vinyl ester

Method: Gel time in water bath. Barcol development and RS analysis in a 3 ply laminate (450 g/m²)

Initiator	Gel time Min	Barcol hardness 934			Residual Styrene (%)	
		4 hr	6 hr	24 hr	24 hr	7 days
ANDONOX CHM-30 (2,1%)	57	0	10-20	20-30	5,5	4,8
Andonox CHM-50 (1,5%)	54	0-10	10-20	20-30	5,4	5,0

PACKAGING, SHIPPING & AVAILABILITY

- The standard package sizes of ANDONOX CHM-30 are 5 kg and 25 kg polyethylene bottles.
- ANDONOX CHM-30 is available pre-dyed in 25kg bottles. Please see Syrgis Performance Initiators TDS for Peroxide Dye Concentrates.
- Classification – Please refer to the specific ANDONOX CHM-30 Safety Data Sheet (SDS) under section 14 & 15, shipping & regulatory information. **NOTE:** SDS's for all Syrgis Performance Initiators products may be requested by contacting the company.
- ANDONOX CHM-30 is available through a global distributor network. Call Syrgis Performance Initiators for the name of the distributor in your area.

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