

ANDONOX KP-LE

DESCRIPTION

ANDONOX KP-LE is a medium active peroxide mixture based on methyl ethyl ketone peroxide in phlegmatizer for the curing of unsaturated polyester resins at ambient temperature in combination with cobalt accelerators.

TYPICAL PROPERTIES

Active oxygen content:	8,7 - 9,0 %
Appearance:	Colourless and clear liquid
Density at 20°C:	1.10 - 1.13 g/cm ³
Viscosity at 20°C:	9 - 15 mPa.s
Flash point:	> 65 °C (Method: Seta closed cup)
SADT:	65°C
Soluble in:	Oxygenated organic solvents
Insoluble in:	Water
Storage temperature:	Max 25°C

APPLICATION

ANDONOX KP-LE replaces our former product ANDONOX KP-9LE and just like KP-9LE, ANDONOX KP-LE is giving a lower exotherm temperature than regular, medium active methyl ethyl ketone peroxide like ANDONOX KP-9. The lower exotherm is important when producing thicker laminates or products where too high temperature could create stress, shrinkage and cracks.

ANDONOX KP-LE should be used in combination with cobalt type accelerators to cure UP-resins at room temperature. The recommended dosage level of ANDONOX KP-LE is 1 - 3% based on resin.

ANDONOX KP-LE can be used in the following applications: hand lay-up, spray-up, RTM, vacuum infusion, filament winding, polymer concrete and where ever you have thicker sections or problems with high exotherm temperatures. ANDONOX KP-LE can be used up to approximately 10 mm laminate thickness.

ANDONOX KP-LE tends to give better cure efficiency i.e. lower residual styrene content than standard MEKP especially after 1-2 days.

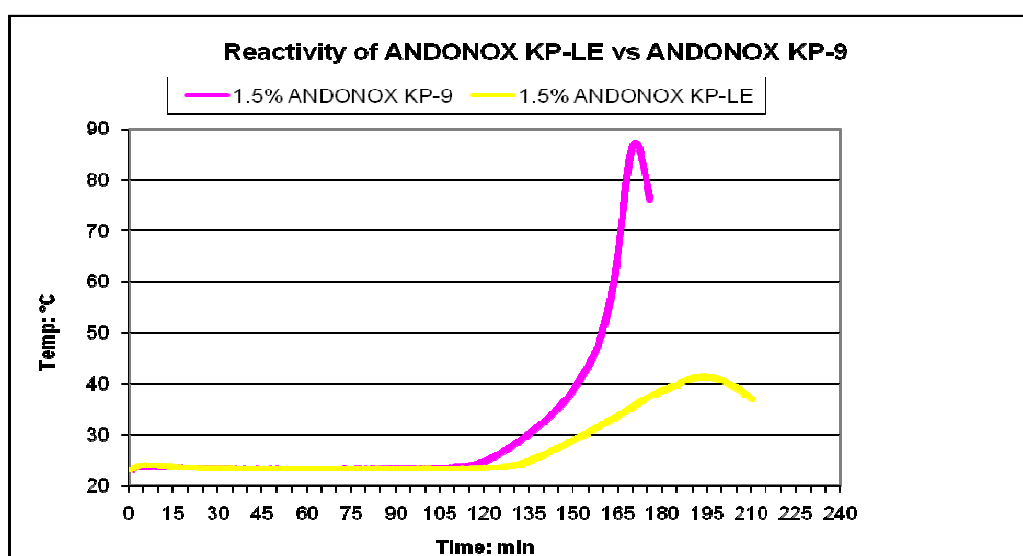
A single MEKP initiator formulation cannot provide optimum results in all resin systems. Evaluation of each MEKP in each resin intended for use is absolutely essential before full-scale manufacturing is attempted.

CURE CHARACTERISTICS

A reactivity test with a pre-accelerated UP-resin for infusion gave the following results:

Resin: DCPD-ortho blend Temperature: 23°C
Initiator %: 1.5

Initiator	Gel time min	Time to peak min	Peak exotherm temp °C
ANDONOX KP-LE	141	194	41
ANDONOX KP-9	132	171	87



PACKAGING, SHIPPING & AVAILABILITY

- The standard package sizes of ANDONOX KP-LE are 5 kg and 25 kg polyethylene bottles.
- ANDONOX KP-LE is available pre-dyed in 25kg bottles. Please see Syrgis Performance Initiators TDS for Peroxide Dye Concentrates.
- Classification – Please refer to the specific ANDONOX KP-LE 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 KP-LE is available through a global distributor network. Call Syrgis Performance Initiators for the name of the distributor in your area.

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