

Technical Data Sheet

NOROX[®] TLC-88

DESCRIPTION

Andonox TLC-88 is a two-step initiator based on methyl ethyl ketone peroxide diluted in phlegmatizers. Andonox TLC-88 was developed to meet the demands of the elevated temperature RTM processes with vinyl ester resins, although the product could be used with unsaturated polyester as well.

TYPICAL PROPERTIES

Active Oxygen:	8.9%
Form:	Liquid
Color:	Water white to staw
Specific Gravity @ 25°/4°C:	1.08 – 1.12
Flash point (SETA C.C.):	167°F (75°C)
SADT:	140°F (60°C)
Soluble in:	Oxygenated organic solvents
Slightly soluble in:	Water
Storage temp:	Max 80°F (27°C)

APPLICATION

Andonox TLC-88 has shown to be an exceptionally good cure system for vinyl ester resins with cobalt accelerators in an elevated temperature range of 105°F to 175°F (40°C – 80°C). Use of conventional ketone peroxides, like MEKP, at elevated temperatures in combination with cobalt accelerators would cause a rapid decomposition of the peroxide that can lead to fast gel and cure times with very high residual styrene levels as a result. When using Andonox TLC-88, these problems can be avoided. TLC-88 gives you the necessary gel time and a fast cure throughout the part, which will produce stronger parts with reduced residual styrene levels. Due to the rapid cure, the peak exotherm will increase as well.

Andonox TLC-88 can also be used to cure unsaturated polyester resins with cobalt accelerators at elevated temperatures. However you will see a longer gel time than with standard MEKP, but similar cure cycles.

Suitable levels of cobalt (naphthenate or octoate in 1% solutions) are 0.2% to 2%. When working at elevated temperatures with such processes as RTM, filament winding or centrifugal casting and using either VE resin or UP resin that requires a prolonged gel time and improved cure, Andonox TLC-88 should be an interesting alternative to conventional MEKP.

PACKAGING, SHIPPING & AVAILABILITY

- The standard package sizes of Andonox[®] TLC-88 are cases of 4x8 lb. polyethylene bottles; and 44 lb. or 20 kg Hedpacks. For custom package sizes, please contact your local distributor or United Initiators SPI, Inc.
 - Classification – Please refer to the specific Andonox[®] TLC-88 Safety Data Sheet under section 14, Shipping Description.
 - Andonox[®] TLC-88 is available through a nation-wide distributor network. Call United Initiators SPI, Inc. for the name of the distributor in your area.
- **NOTE:** SDS's for all our products may be requested thru the website www.syrgispi.com

Disclaimer

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