

NORPOL PEROXIDE 1

Technical Data Sheet

Description

NORPOL PEROXIDE 1 is a methyl ethyl ketone peroxide in phlegmatizer for the curing of unsaturated polyester resins at ambient temperature in combination with cobalt accelerators.

Application

NORPOL PEROXIDE 1 is a general purpose MEKP and is the workhorse of the NORPOL PEROXIDE line. NORPOL PEROXIDE 1 gives consistent room temperature performance with both resins and gelcoats. A reliable product of remarkable purity, NORPOL PEROXIDE 1 assures quality in almost every system.

Suitable applications are: Hand lay-up, spray-up, RTM, continuous laminating, centrifugal casting, filament winding, polyester concrete and vacuum infusion. 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.



Product data

Product	Description
Active oxygen content	9.0 – 9.2%
Free hydrogen peroxide content	1.6 – 1.8%
Water content	1.5%
Appearance	Colourless and clear liquid
Density at 20°C	1.12 – 1.15 g/cm ³
Viscosity at 20°C	9 – 15 mPa.s
Flash point	> 80°C (Method: Seta closed cup)
SADT	65°C
Soluble in	Oxygenated organic solvents
Insoluble in	Water
Storage temperature	Max. 25°C



Refreshing chemical distribution

Cure Characteristics

A reactivity test with an unsaturated polyester resin gave the following results:

Resin: Orthophthalic polyester

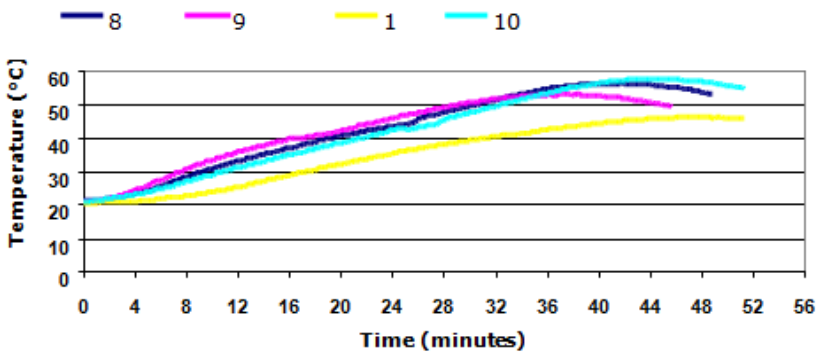
Temperature: 21°C

Initiator %: 1.0

Accelerator %: 1% (1% cobalt)

Initiator	Gel time Min	Time to peak Min	Peak exotherm temp °C
NORPOL PEROXIDE 1	11	48	47
NORPOL PEROXIDE 10	8	45	58
NORPOL PEROXIDE 8	6	42	56
NORPOL PEROXIDE 9	5	37	53

Reactivity of NORPOL PEROXIDE Initiators



Packaging, shipping & availability

- The standard package sizes of NORPOL PEROXIDE 1 are 5 kg and 25 kg polyethylene bottles.
- NORPOL PEROXIDE 1 is available pre-dyed in 25kg bottles. Please see Azelis TDS for Peroxide Dye Concentrates.
- Classification – Please refer to the specific NORPOL PEROXIDE 1 Safety Data Sheet (SDS) under section 14 & 15, shipping & regulatory information. **NOTE:** SDS's for all Azelis products may be requested by contacting the company.
- NORPOL PEROXIDE 1 is available through a global distributor network. Call Azelis for the name of the distributor in your area.



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