

LUPEROX® K12G



METHYL ETHYL KETONE PEROXIDE

CAS Nr.: 1338-23-4

EINECS: 215-661-2

APPLICATIONS

Luperox® K12G is a Methyl Ethyl Ketone Peroxide phthalate free. In ortho- and isophthalic resins, Luperox® K12G gives long gel time and is therefore particularly recommended for the manufacture of very large molded pieces when the room temperature is elevated. Thanks to its specific composition and its low content in hydrogen peroxide, Luperox® K12G is well adapted to the cure of a wide variety of vinyl ester resins with no foaming affect.

SPECIFICATIONS

	Units	Values	Method of Analysis
Physical form	-	Clear liquid	AM/I/71/A
Active oxygen	% w	8.3 – 8.7	AM/I/53/C

CHARACTERISTICS

	Units	Values
Density at 20°C	g/ml	0,997
Viscosity at 20°C	mPa s	11
Flash point (setapoint)	°C	42
S.A.D.T (1)	°C	55

(1) Self-Accelerating Decomposition Temperature

DOSAGE

Typical concentrations for Luperox® K12G are from 1 to 3% by weight based on resin and for cobalt accelerator from 0,25% to 4% based on 1% metal content solution. Faster reaction and shorter demold times can be obtained by the addition of promoters such as dimethyl aniline or diethyl aceto-acetamide to the cobalt accelerator.

Luperox® K12G is recommended for the curing of ortho- and isophthalic, Bisphenol-A, neopentyl-glycol or Vinyl Ester resins at temperatures between 15 and 50°C in presence of cobalt accelerator.

Typical applications of Luperox® K12G are:

- Hand lay up,
- Spray up,
- Centrifugal casting and filament winding,
- Polyester concrete,
- Gel coats,
- Curing of vinyl ester resins.

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CURING PROPERTIES

The factors to be considered in selecting the optimum initiator / accelerator system are:

1. Process,
2. Resin type,
3. Required gel time or pot-life,
4. Part thickness,
5. Room temperature,
6. Nature and quantity of additives,
7. Dosage optimization between Luperox® K12G and accelerator.

STANDARD PACKAGING

25 kg drums and 4x5 kg.

SAFETY - HAZARD

Please consult the Safety Data Sheet before using the product.

STORAGE - HANDLING

Product can be stored minimum three months after receiving date, if kept in appropriate conditions and below its maximum storage temperature. Refer to the Safety Data Sheet for detailed storage instructions.

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See MSDS for Health & Safety Considerations