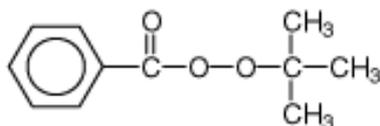


CUROX[®] CATA-2000

tert Butyl peroxybenzoate
CAS#614-45-94
Liquid mixture, Super Activity

Formula



Description

Slightly yellowish, mobile liquid, consisting of a very active mixture of peroxides. In combination with cobalt accelerators, this product is used as an initiator (radical source), especially in the curing of unsaturated polyester resins at elevated temperatures (40-100°C), as well as for vinyl ester resins at ambient temperature.

Technical Data

Appearance	Slightly yellowish liquid
Active oxygen	5.6% w/w min
De-sensitising agent	none
Density at 20°C	ca. 1.04 g/cm ³
Viscosity at 20°C	ca. 20 mPa.s
Miscibility	Immiscible with water, miscible with alcohols and esters
Critical temperature (SADT)	ca. 80°C
Recommended storage temperature	10 °C - 30°C
Maintenance of activity at below 30°C	ca. 6 months
Supply form	5 Kg polyethylene container

Application

POLYESTER AND VINYL ESTER CURING:

Curing agent for polyester and vinyl ester resins at ambient temperature in combination with cobalt or cobalt/amine accelerators. At elevated temperatures (40 - 100°C) particularly suitable for resin types based on ortho- or iso-phthalic acid. Usage level 1-2% as supplied, together with 0.5-1% of a 1% cobalt solution. Together with a cobalt accelerator the curing of vinyl ester resins at ambient temperature is possible.

"Shelf life" (gel time of resin + peroxide) several days. "Pot life" (gel time of resin + peroxide+ accelerator) relatively short, but may be prolonged by adding inhibitor.

Application

CURING PERFORMANCE:

In combination with cobalt accelerators relatively rapid curing of UP resins at above 40°C. Special advantages: good mould release factor, very good degree of cure. In curing vinyl ester resins at ambient temperature long gel times can be adjusted without the use of inhibitors.

PROCESSING METHODS:

Especially suitable for the curing in closed moulding techniques, eg. Resin transfer moulding (RTM), and wet press moulding at 40-100°C, preferably at 60°C.

Safety & Handling

The product should be stored in the closed supply container at temperatures **below +30°C**. Keep in a well-ventilated place. Keep away from ignition and heat sources (e.g. direct sun light). Keep separated from other dangerous and incompatible substances. Avoid contamination with e.g. rust, dust, ash (danger of decomposition).

Avoid contact with skin, eyes and clothing. At the end of work and before breaks, hands should be washed. Prophylactic skin protection recommended.

Use with adequate ventilation. Suction off product vapours at their point of generation. Avoid formation of aerosols. Do not breathe vapour/ aerosol. Wear suitable respiratory protection if necessary.

Peroxide residues must not be returned into the original container, danger of decomposition!

Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

Application and usage of our products based on our technical advice is out of our control and sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming goods in order to verify the suitability for the intended application.

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