

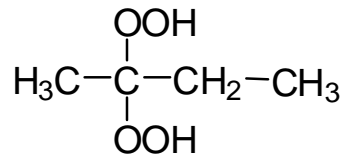
Technical Data Sheet (TDS)

CUROX[®]M-312
Thermosets (TS)

CUROX[®]M-312

Methyl ethyl ketone peroxide
CAS#1338-23-4
Colourless liquid

Structural Formula



Description

Colourless, mobile liquid, consisting of peroxides based on methyl ethyl ketone, essentially desensitised with aliphatic ester. This ketone peroxide is used as a radical initiator in the curing of unsaturated polyester resins.

Main application: Curing of moulded parts at ambient temperature in combination with cobalt accelerators.

Advantages: High efficiency with special pre-accelerated and stabilised resin types.

Technical Data

Appearance	colourless liquid
Desensitising agent	aliphatic ester
Active oxygen (AO)	ca. 8.6 – 9.2 % w/w
Hydrogen peroxide	ca. 2.6 % w/w
Density at 20 °C	ca. 1.01 g/cm ³
Viscosity at 20 °C	ca. 13 mPa.s
Refractive index at 20 °C	ca. 1.431
Flash point	ca. 57 °C
Critical temperature (SADT)	ca. 60 °C
Cold storage stability	ca. -25 °C
Recommended storage temperature	below 30 °C
Storage stability as from date of delivery	6 months

Standard Packaging

5 kg and 22.5 kg HDPE canister

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Application

POLYESTER CURING:

Curing agent for all UP resins at ambient temperature in combination with cobalt accelerators. Especially suitable for resins based on ortho- and isophthalic acid respectively.

Standard dosage level: 1 - 3 % as supplied, with 0.5 - 2 % of a 1 % cobalt solution.

"Shelf life" (gel time of resin + peroxide) usually only a few hours, depending on temperature and resin type.

"Pot life" (gel time of resin + peroxide + accelerator) relatively short, but maybe be prolonged by adding Inhibitor TC-510. Thus, the mould release factor (fMR = tMR/tgel) can be improved considerably.

CURING PERFORMANCE:

Moderate evolution of heat. Relatively long mould release time, moderate mould release factors. Temperatures below 20 °C prolong curing times considerably, alternatively cobalt / amine accelerators should then be used.

PROCESSING METHODS:

Particularly hand lay-up, spray lay-up, centrifugal casting, filament winding, casting of resins, and surface coatings (putties, fillers, gelcoats and topcoats).

SPRAY EQUIPMENT:

Use spray equipment in accordance with manufacturer's instructions. Ensure all safety devices are operational. Do not clear gun by spraying MEKP into the air.

Decomposition Products

Possible detectable decomposition products: Methyl ethyl ketone (MEK), acetic acid

Storage

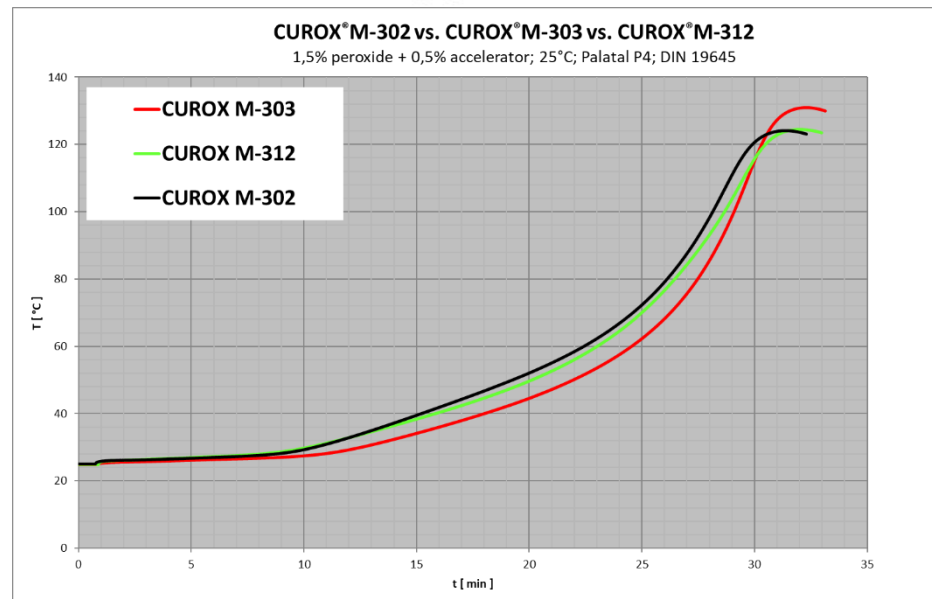
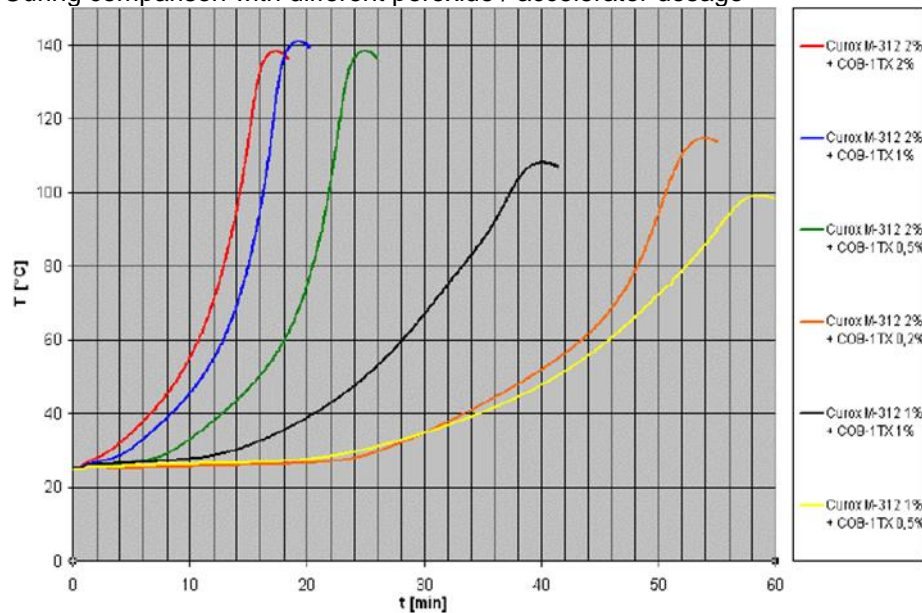
Avoid any source of heat, light, humidity and protect the product from impurities. Keep within save temperature limits.

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Measurements

Curing comparison with different peroxide / accelerator dosage



Disclaimer:

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