

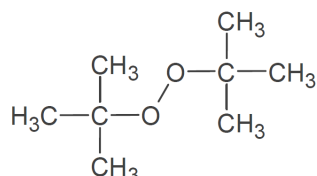
PEROXAN DB

Dialkyl peroxide / Curing

Description

Di-tert-butyl peroxide
98%, Liquid

PEROXAN DB is used for the curing of unsaturated polyester resins and polymerization of styrene alkyde mixtures.



Molecular weight: **146.2**
CAS No.: **110-05-4**

Technical data

Appearance: **clear liquid**
Peroxide assay: **min. 98%**
Active oxygen assay: **min. 10.72%**
Density at 20°C: **0.8 g/cm³**

Solubility

not determined

Storage

Maximum storage temperature (Ts max): **30°C**
Storage stability as from date of delivery: **6 months**

Hazardous reactions

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

Safety characteristics

Flash point:
SADT: **80°C**

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

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Application

PEROXAN DB is used for the curing of unsaturated polyester resins at elevated temperatures, in the temperature range from 120° to 160°C. Due to its high volatility, PEROXAN DB requires strict precautions in handling and metering.

Furthermore, PEROXAN DB is used in polymerization of alkyde styrene resins.

Depending on working conditions, the following peroxide dosage level is recommended:

PEROXAN DB: 1,0 to 1,5 phr

Packaging

20kg container
154kg drum

Major decomposition products

Acetone, Methane, tert-Butanol

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN DB. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at www.pergan.com or through contacting Pergan directly.

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