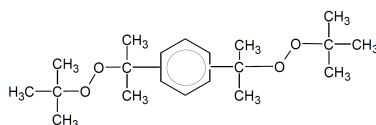


# PEROXAN BIB-1

## Dialkyl peroxide / Curing

**Description** Di-(2-tert.-butyl-peroxyisopropyl)-benzene  
95%, Powder

PEROXAN BIB-1 is used for the curing of unsaturated polyester resins.



Molecular weight: **338.5**  
CAS No.: **25155-25-3**

**Technical data**  
Appearance: **white powder**  
Peroxide assay: **min. 95%**  
Active oxygen assay: **min. 8.98%**  
Bulk density at 20°C: **561 kg/m<sup>3</sup>**

**Solubility** Insoluble in water, Soluble in aromatic and aliphatic solvents, ketones

**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°C**  
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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## Dialkyl peroxide / Curing

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### Application

PEROXAN BIB-1 is used for the curing of unsaturated polyester resins at elevated temperatures.

PEROXAN BIB-1 is preferred for the curing of UP resin based hot press moulding formulations in the temperature range from 130° to 170°C. It is specially suitable for GMC; as a solid it ensures good homogenization in the compound.

The stability of this Dialkyl peroxide in an UP resin is hardly influenced by the presence of metal accelerators, pigments or fillers.

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

PEROXAN BIB-1: 1,0 to 2,0 phr

### Packaging

**20kg cardboard box**

### Major decomposition products

**Acetone, Acetyl-2-hydroxyisopropylbenzene, Di(2-hydroxyisopropyl)benzene, Diacetylbenzene, 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 BIB-1. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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