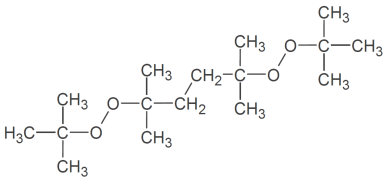
PEROXAN HX-45 P

Dialkyl peroxide / Curing

Description

2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane
45%, Powder with chalk

PEROXAN HX-45 P is used for the curing of unsaturated polyester resins.



Molecular weight:	**290.4**
CAS No.:	**78-63-7**

Technical data

Appearance:	**white powder**
Peroxide assay:	**appx. 45%**
Active oxygen assay:	**appx. 4.96%**
Bulk density at 20°C:	**300 kg/m³**

Solubility

not determined

Storage

Maximum storage temperature (Ts max):	**40°C**
Minimum storage temperature (Ts min):	**10°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:	91°C°C
SADT:	80°C

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

PERGAN The Peroxide Company
Schlavenhorst 71
D-46395 Bocholt
Germany
Phone: +49 (0)2871 / 99 02-0
Fax: +49 (0)2871 / 99 02-50
www.pergan.com

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Application	PEROXAN HX-45 P is used for the curing of unsaturated polyester resins at elevated temperatures. PEROXAN HX-45 P is preferred for the curing of UP resin based hot press moulding formulations in the temperature range from 140° to 180°C. 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 HX-45 P: 2,0 to 4,0 phr
Packaging	**20kg cardboard box**
Major decomposition products	**Ethane, Methane, tert Amyl-alcohol, tert-Butanol**
Safety and handling	Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN HX-45 P. 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.

Schlavenhorst 71
D-46395 Bocholt
Germany

Phone: +49 (0)2871 / 99 02-0
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www.pergan.com