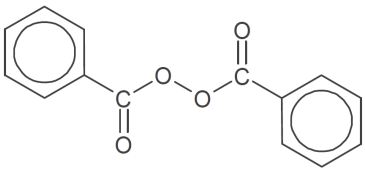
PEROXAN BP-Pulver 50 W-F

Diacyl peroxides / Curing

Description

Dibenzoylperoxide
50%, Powder in dicyclohexyl phthalate

PEROXAN BP-Pulver 50 W-F is used for the curing of unsaturated polyester resins and acrylic resins at ambient and elevated temperatures.



Molecular weight:	**242.2**
CAS No.:	**94-36-0**

Technical data

Appearance:	**white powder**
Peroxide assay:	**appx. 50%**
Active oxygen assay:	**appx. 3.3%**
Bulk density at 20°C:	**610 kg/m³**

Solubility

Insoluble in water

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.

Safety characteristics

SADT: 60°C

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

PEROXAN BP-Pulver 50 W-F

Diacyl peroxides / Curing

Application

PEROXAN BP-Pulver 50 W-F is a very fine powder, consisting of 50% Dibenzoyl peroxide and at a maximum 0.5% water.
PEROXAN BP-Pulver 50 W-F is used for the curing of unsaturated polyester resins and acrylic resins at ambient and elevated temperatures. At temperatures up to 80°C, PEROXAN BP-Pulver 50 W-F should be used in combination with a tertiary amine accelerator, above 80°C the use of an accelerator is not required.

PEROXAN BP-Pulver 50 W-F is easy to handle, easy to disperse and dissolves quickly in unsaturated polyester resins and acrylic resins.

The curing system PEROXAN BP-Pulver 50 W-F in combination with an amine accelerator shows a very fast cure that is hardly influenced by humidity and fillers. Even at low temperatures a relatively good cure will be obtained. A disadvantage may be the yellow colour and poor light resistance of the moulded product.

For ambient temperature curing the following amine accelerators are available to adjust the gel time and speed of cure of the cure system based on PEROXAN BP-Pulver 50 W-F:

PERGAQUICK A100 (N,N-Dimethyl-p-toluidine) for short gel times
PERGAQUICK A150 PM (Ethoxylates of p-toluidine) for short to medium gel times
PERGAQUICK A200 (N,N-Dimethylaniline) for medium gel times
PERGAQUICK A300 (N,N-Diethylaniline) for long gel times

Depending on working conditions the following peroxide and accelerator dosage levels are recommended:

PEROXAN BP-Pulver 50 W-F: 2 to 5 phr
Amine accelerator: 0,05 to 0,5 phr

Packaging

25kg cardboard box

Major decomposition products

Benzoic acid, Benzene, , diphenyl, Carbon dioxide, phenyl benzoate

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BP-Pulver 50 W-F. 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.

The information presented herein is true and accurate and to the best of our knowledge, but without any guarantee. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

Schlavenhorst 71
D-46395 Bocholt
Germany

Phone: +49 (0)2871 / 99 02-0
Fax: +49 (0)2871 / 99 02-50
www.pergan.com