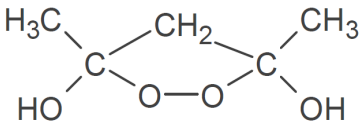
PEROXAN A-40 L

Ketone peroxide / Curing

Description

Acetylacetone peroxide
Solution in diacetone alcohol

PEROXAN A-40 L is used for the curing of unsaturated polyester resins at ambient temperature in combination with cobalt accelerators.



CAS No.:	**37187-22-7**

Technical data

Appearance:	**clear liquid**
Active oxygen assay:	**appx. 4.2%**
Density at 20°C:	**1.02 g/cm³**

Solubility

Soluble in water and alcohols

Storage

Maximum storage temperature (Ts max):	**25°C**
Minimum storage temperature (Ts min):	**5°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

Flash point:	80°C
SADT:	60°C

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

Schlavenhorst 71
D-46395 Bocholt
Germany

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

PEROXAN A-40 L

Ketone peroxide / Curing

Application

PEROXAN A-40 L is used for the curing of unsaturated polyester resins at ambient temperature in combination with cobalt accelerators.

With the curing system PEROXAN A-40 L in combination with a cobalt accelerator a much faster speed of cure may be achieved than with curing systems based on a MEKP plus cobalt accelerator. Normally, the gel times with PEROXAN A-40 L are comparable to those with PEROXAN ME-50 L.

PEROXAN A-40 L is particularly suitable in those applications where a fast mould-turnover is required, e.g. for the cold press moulding or resin injection moulding techniques.

The system PEROXAN A-40 L plus cobalt accelerator will give a higher peak exotherm than a standard MEKP / cobalt accelerator system. Due to this fact, it is recommendable to avoid the production of too thick laminates in one operation. At low temperatures a reasonable speed of cure is still obtained when PEROXAN A-40 L is used in combination with a cobalt amine accelerator, e.g. PERGAQUICK C24 AX, which contains N,N-Dimethylaniline as promotor.

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

PEROXAN A-40 L: 1,0 to 3,0 phr
PERGAQUICK C12 X (Cobalt, 1%): 0,5 to 2,0 phr

Packaging

30kg container

Major decomposition products

acetylacetone, Carbon dioxide, mixture of aliphatic acids, Water

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN A-40 L. 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