

Dicumyl Peroxide 40 DP40

Product Description Dicumyl peroxide, 40% supported on calcium carbonate

Molecular weight	270.4
Theoretical active oxygen	5.92%
CAS number	80-43-3
TSCA status	listed on inventory

Characteristics

Peroxide content	39.0 – 41.0 %
Appearance	off-white powder

Function and Major Applications

Percadox 40- is a monofunctional peroxide which is used for cross-linking organic elastomers and polyolefins.

Application characteristics:

- Rubber compounds containing Percadox 40 have good processing safety with a moderate rate of cure.
- Safe processing temperature (rheometer $t_s^2 > 20$ minutes): 130 °C (266 °F).
- Typical cross-linking temperature (rheometer t_{90} about 12 minutes) is 170 °C (338 °F).

Storage

Due to the relatively unstable nature of organic peroxides a loss of quality can be detected over a period of time upon improper storage. To keep the loss of quality as low as possible, It is recommends a maximum storage temperature (Ts) for each organic peroxide product.

For Perkadox 40 $T_s \leq 30$ °C (86 °F)

When stored under these recommended conditions.

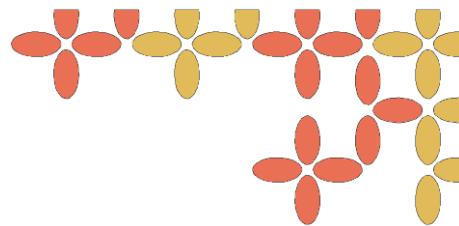
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Safety and Handling

Do not store near open flames, sparks or other sources of heat. Avoid contact with rust. Never store together with chemicals such as heavy metal compounds, metal soaps, driers and accelerators. Keep container closed when not in use. To prevent contact with the eyes and skin, the use of safety goggles and protective clothing is strongly recommended; ventilation is recommended.

Please refer to the material safety data sheet for further information on the safe storage, use and handling of this product. This information should be thoroughly reviewed prior to acceptance of this product.

Thermal Stability

Organic peroxides are thermally unstable substances which may undergo exothermic self-accelerating decomposition. The lowest temperature at which self-accelerating decomposition of a substance in its original packaging may occur is the Self – Accelerating Decomposition Temperature (SADT).

For Perkadox BC-40B-pd SADT = 75 °C (167 °F)

Packaging and Shipping

Perkadox BC-40B-pd is packed in non-returnable poly-lined cartons of 50 lb net weight. Under department of Transportation (DOT) regulations, Perkadox BC-40B-pd is not regulated for shipping and does not require a peroxide label.

Major Decomposition Products

Acetophenone, 2-phenylpropanol-2 and methane.

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