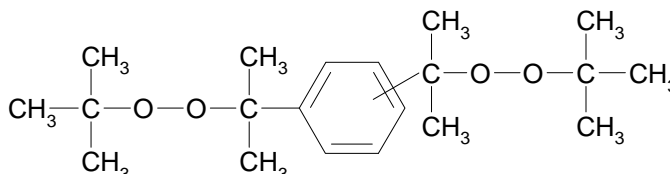




Perkadox[®] 14-40B-pd

Product description

Di(tert-butylperoxyisopropyl)benzene, powder
40% with calcium carbonate and silica



Molecular weight	: 338.5
Active oxygen content peroxide	: 9.45%
actual product	: 3.7-3.9%
CAS No.	: 25155-25-3
EINECS/ELINCS No.	: 246-678-3
TSCA status	: listed on inventory

Perkadox 14-40B-pd is a bifunctional peroxide formulation which is used for the crosslinking of natural and synthetic rubbers, as well as thermoplastic polyolefins.

Specifications

Appearance	: Off-white powder
Assay	: 39.0-41.0%

Characteristics

Density, 20°C	: 1.65 g/cm ³
Bulk density, 20°C	: 470 kg/m ³

Storage

Due to the relatively unstable nature of organic peroxides a loss of quality can be detected over a period of time. To minimize the loss of quality, AkzoNobel recommends a maximum storage temperature (T_s max.) for each organic peroxide product.

For *Perkadox* 14-40B-pd T_s max. = 30°C

When stored under the recommended storage conditions, *Perkadox* 14-40B-pd will remain within the AkzoNobel specifications for a period of at least six months after delivery.

Thermal stability

Organic peroxides are thermally unstable substances, which may undergo self-accelerating decomposition. The lowest temperature at which self-accelerating decomposition of a substance in the original packaging may occur is the Self-Accelerating Decomposition Temperature (SADT). The SADT is determined on the basis of the Heat Accumulation Storage Test.

For *Perkadox* 14-40B-pd SADT : 80°C

The Heat Accumulation Storage Test is a recognized test method for the determination of the SADT of organic peroxides (see Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria - United Nations, New York and Geneva).

Major decomposition products

Methane, Acetone, tert-Butanol, Di(2-hydroxyisopropyl)benzene, Diacetylbenzene, Acetyl 2-hydroxyisopropyl benzene

Packaging and transport

The standard packaging is a cardboard box for 25 kg peroxide formulation.

Both packaging and transport meet the international regulations. For the availability of other packed quantities consult your AkzoNobel representative.

Perkadox 14-40B-pd is not classified as a dangerous good according to national and international transport regulations.

Safety and handling

Keep containers tightly closed. Store and handle *Perkadox* 14-40B-pd in a dry well-ventilated place away from sources of heat or ignition and direct sunlight. Never weigh out in the storage room.

Avoid contact with reducing agents (e.g. amines), acids, alkalines and heavy metal compounds (e.g. accelerators, driers and metal soaps).

Please refer to the Material Safety Data Sheet (MSDS) for further information on the safe storage, use and handling of *Perkadox* 14-40B-pd. This information should be thoroughly reviewed prior to acceptance of this product.

The MSDS is available at www.akzonobel-polymerchemicals.com.

Applications

Perkadox 14-40B-pd is used for the crosslinking of natural and synthetic rubbers, as well as thermoplastic polyolefins.

- Rubber compounds containing *Perkadox* 14-40B-pd have excellent scorch safety, under certain conditions one step mixing is possible.
- Safe processing temperature: 135°C (rheometer t_{s2} > 20 minutes).
- Typical crosslinking temperature: 175°C (rheometer t_{90} about 12 minutes).

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