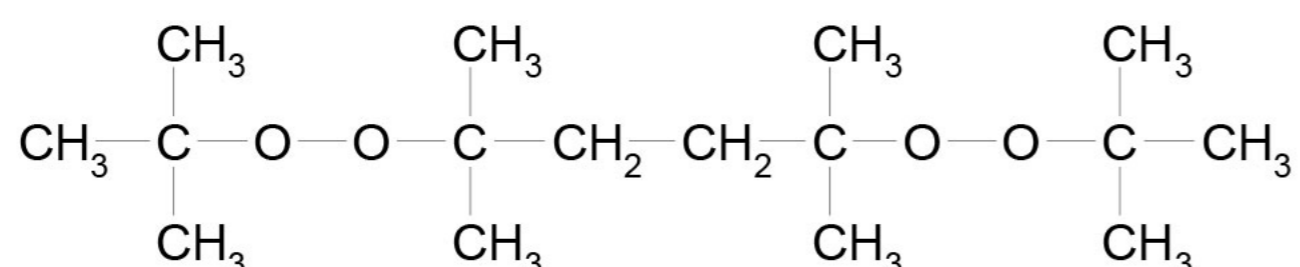




EST-PKN520

DESCRIPTION

2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane, paste
45-50% in silicone oil



Molecular weight	: 290.4
Active oxygen content peroxide	: 11.02%
actual product	: 4.84-5.06%
CAS No.	: 78-63-7
EINECS/ELINCS No.	: 201-128-1
TSCA status	: listed on inventory

EST-PKN520 is a bifunctional peroxide formulation which is mainly used for the crosslinking of silicone rubbers.

Specifications

Appearance	: Translucent
Assay	: 45-50%

Characteristics

Density, 20°C	: 0.940 g/cm ³
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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, Yantai E.S.T silicone tech co.,Ltd recommends a maximum storage temperature (T_s max.) for each organic peroxide product.

For *EST-PKN520* T_s max. = 30°C (86°F)
 T_s min. = 10°C (50°F) to prevent freezing

When stored under these recommended storage conditions, *EST-PKN520* will remain within the Yantai E.S.T silicone tech co.,Ltd 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 selfaccelerating decomposition of a substance in the original packaging may



EST-PKN520

occur is the Self-Accelerating Decomposition Temperature (SADT). The SADT is determined on the basis of the Heat Accumulation Storage Test.

For *EST-PYZ2* SADT : 80°C (176°F)

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).

Major decomposition products

Methane, Ethane, Acetone, tert-Butanol, tert-Amyl alcohol

Packaging and transport

The standard package is a plastic pail with 20 kg net weight.

Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Yantai E.S.T silicone tech co.,Ltd representative.

EST-PKN520 is classified as Organic peroxide type E; solid, Division 5.2; UN 3108.

Safety and handling

Keep containers tightly closed. Store and handle *EST-PKN520* 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, alkalis and heavy metal compounds (e.g. accelerators, driers and metal soaps).

Store above 10°C to prevent freezing and product separation.

Please refer to the Material Safety Data Sheet (MSDS) for further information on the safe storage, use and handling of *EST-PKN520*. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available at www.siltech21.com

Applications

EST-PKN520 is mainly used for the crosslinking of silicone rubbers.

- Rubber compounds containing *EST-PKN520* have excellent scorch safety.
- 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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