

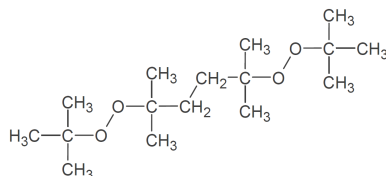
# PEROXAN HX-45 SP

## Dialkyl peroxide / Crosslinking

### Description

2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane  
45%, Paste in silicone rubber

PEROXAN HX-45 SP is used for the crosslinking of silicone rubber.



Molecular weight:

**290.4**

CAS No.:

**78-63-7**

### Technical data

Appearance:

**yellowish, transparent paste**

Peroxide assay:

**appx. 45%**

Active oxygen assay:

**appx. 4.96%**

Density at 20°C:

**0.95 g/cm<sup>3</sup>**

### Half life time

in an EPDM compound:

$t_{1/2}$	10h	1h	0,1h
bei	<b>118°C</b>	<b>147°C</b>	<b>171°C</b>

### Storage

Maximum storage temperature (Ts max):

**40°C**

Minimum storage temperature (Ts min):

**10°C**

Storage stability as from date of delivery:

**6 months**

### Hazardous reactions

Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

### Safety characteristics

SADT:

**80°C**

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

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## Application

PEROXAN HX-45 SP is recommended for the crosslinking of silicone rubber. Rubber compounds containing PEROXAN HX-45 SP have excellent scorch safety.

Safe processing temperature (t<sub>2</sub>): 135°C

Typical crosslinking temperature (t<sub>90</sub>): 175°C

The safe processing temperature t<sub>2</sub> is defined as the temperature, at which the scorch time is longer than 20 minutes. The typical crosslinking temperature t<sub>90</sub> is defined as the temperature at which 90% of the crosslinks in the compound are formed within about 12 minutes.

## Packaging

**18kg**

## Major decomposition products

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

## Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN HX-45 SP. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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