Perovion®

Product Name : Perovion® DBPH P14-45

CAS number : 1068-27-5

Chemical Type : 2,5-Dimethyl-2,5-di(tert-butylperoxy) hexyne-3

Business Unit : Organic Peroxides

1. Product Description

Perovion® DBPH P14-45 is a bifunctional organic peroxide supplied as an off-white free-flowing powder containing approximately 45% active ingredient on an inert carrier system. It is designed for high-temperature crosslinking applications, providing controlled radical generation and good scorch safety.

2. Typical Applications

- Crosslinking of natural rubber
- Crosslinking of synthetic rubbers
- Crosslinking of polyolefins

Indicative processing characteristics include good scorch safety at elevated temperatures and efficient crosslinking performance, subject to formulation and processing conditions.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Off-white powder	Visual
Assay (active ingredient)	%	44.0 – 46.0	Internal
Active oxygen content	%	~11.2	Calculated
Concentration (as	%	~4.9 – 5.1	Internal
Molecular weight (active)	–	286.4	Calculated

Note: Typical values are indicative only and do not constitute a specification.

4. Recommended Use

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Indicative curing characteristics:

- Safe processing temperature: ~145 °C (rheometer ts_2 > 20 min)
- Typical crosslinking temperature: ~185 °C (rheometer t_{90} ≈ 12 min)

5. Packaging & Logistics

Perovion® DBPH P14-45 is supplied in standard industrial packaging formats (e.g., poly-lined cartons), subject to confirmation at the quotation stage.

Minimum order quantities depend on packaging configuration and destination requirements.

- Incoterms: FOB / CFR / CIF (as specified in the quotation)

Lead time: Indicative lead time provided at quotation and confirmed upon order acceptance

6. Quality & Documentation

Each batch of Perovion® DBPH P14-45 is released under Innovexar Quality Assurance standards and is accompanied by a batch-specific Certificate of Analysis (COA).

Safety Data Sheets (SDS) and relevant transport documentation are provided in accordance with destination regulatory requirements. Full batch traceability is maintained through digitized QA documentation systems.

7. Handling & Storage

Perovion® DBPH P14-45 should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.

- Recommended maximum storage temperature: ≤30 °C

Avoid contact with reducing agents, acids, alkalis, amines, or heavy metal compounds. Refer to the SDS for detailed safety and handling instructions.

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