Perovion®

Product Name : Perovion® DHBP P10-50D

CAS number : 78-63-7

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

Business Unit : Organic Peroxides

1. Product Description

Perovion® DHBP P10-50D is a bifunctional organic peroxide supplied as a free-flowing powder formulation containing approximately 50% active ingredient on an inert carrier system. It is designed for polymer crosslinking applications requiring good scorch safety and controlled peroxide decomposition behavior.

2. Typical Applications

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

Rubber compounds containing Perovion® DHBP P10-50D typically exhibit good scorch safety. Under certain processing conditions, one-step mixing may be applicable, subject to formulation validation.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	White powder	Visual
Assay	%	49.0 – 51.0	Internal
Active oxygen content	%	~5.4 – 5.6	Calculated
Molecular weight (active)	–	290.4	Calculated

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

4. Recommended Use

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The dosage and use conditions of Perovion® DHBP P10-50D depend on polymer type, formulation, and processing parameters. Safe processing temperatures and crosslinking profiles should be evaluated and validated by the user prior to production use. Standard organic peroxide handling and dosing procedures must be followed.

5. Packaging & Logistics

Perovion® DHBP P10-50D is supplied in standard industrial packaging formats (e.g., cardboard boxes), 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® DHBP P10-50D 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® DHBP P10-50D should be stored in its original, tightly closed containers in a dry, well-ventilated area away from heat sources and direct sunlight.

- Recommended storage temperature range: ~0 °C to 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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