Perovion®

Product Name : Perovion® TMCH P29-40

CAS number : 6731-36-8

Chemical Type : 1,1-Di(tert-butylperoxy)-3,3,5-trimethylcyclohexane

Business Unit : Organic Peroxides

1. Product Description

Perovion® TMCH P29-40 is a bifunctional organic peroxide supplied as a free-flowing powder formulation containing approximately 40% active ingredient on an inert carrier system. It is designed for polymer crosslinking applications where controlled peroxide decomposition and uniform dispersion are required.

2. Typical Applications

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

Typical processing characteristics include a defined safe processing temperature window and effective crosslinking performance at elevated temperatures, subject to formulation and processing conditions.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Off-white powder	Visual
Assay	%	39.0 – 41.0	Internal
Active oxygen content	%	~4.1 – 4.3	Calculated
Molecular weight	–	302.5	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® TMCH P29-40 depend on polymer type, formulation, and processing parameters. Safe processing and crosslinking temperatures should be established and validated by the user prior to production use. Standard organic peroxide handling and dosing procedures must be followed.

5. Packaging & Logistics

Perovion® TMCH P29-40 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® TMCH P29-40 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® TMCH P29-40 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 contamination with reducing agents, acids, alkalis, amines, or heavy metal compounds. Refer to the SDS for detailed safety and handling instructions.

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