Perovion®

Product Name : Perovion® TBPND L23

CAS number : 26748-41-4

Chemical Type : tert-Butyl peroxyneodecanoate (75% solution in isododecane)

Business Unit : Organic Peroxides

1. Product Description

Perovion® TBPND L23 is a liquid organic peroxide initiator supplied as a ~75% solution in an inert hydrocarbon carrier. It is an efficient initiator for LDPE production in both tubular and autoclave processes and is typically used in combination with other peroxides to provide a broad reactivity profile. It is also suitable for suspension polymerization of vinyl chloride at moderate temperatures.

2. Typical Applications

- LDPE production (tubular and autoclave processes)
- Suspension polymerization of vinyl chloride (PVC) (~40–65 °C)
- Selected polymer production, thermoset composites, and acrylic applications

Perovion® TBPND L23 can be used alone or in combination with other peroxides (e.g., higher- or lower-reactivity types) to optimize reactor efficiency and conversion, subject to process design.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Clear liquid	Visual
Assay	%	74.0 – 76.0	Internal
Active oxygen	%	4.84 – 4.98	Internal
Active oxygen (peroxide)	%	~6.55	Calculated
Density (0 °C)	g/cm³	~0.877	Internal
Viscosity (0 °C)	mPa·s	~17	Internal

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Property	Unit	Typical Value	Test Method
Color	Pt-Co	≤30	Internal
Hydroperoxides (as TBHP)	%	≤0.099	Internal
Hydrolysable chloride (inorg. + org.)	mg/kg	≤150	Internal
Molecular weight (active)	–	244.4	Calculated

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

4. Recommended Use

Perovion® TBPND L23 is typically used in LDPE polymerization and PVC suspension polymerization where controlled initiation at moderate temperatures is required. Initiator combinations, dosage, and temperature profiles should be evaluated and validated by the user prior to production use. Standard organic peroxide handling procedures must be followed.

5. Packaging & Logistics

Perovion® TBPND L23 is supplied in standard industrial liquid packaging formats (e.g., HDPE containers), subject to confirmation at the quotation stage.
Minimum order quantities depend on packaging configuration and destination requirements.

6. Quality & Documentation

Each batch of Perovion® TBPND L23 is released under Innovexar Quality Assurance standards and is accompanied by a batch-specific Certificate of Analysis (COA).

7. Handling & Storage

Perovion® TBPND L23 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: ~−20 °C to −10 °C (to prevent crystallization and maintain quality)

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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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