Perovion®

Product Name : Perovion® TBPC L22-50

CAS number : 3006-86-8

Chemical Type : 1,1-Di(tert-butylperoxy)cyclohexane

Business Unit : Organic Peroxides

1. Product Description

Perovion® TBPC L22-50 is a liquid dialkyl organic peroxide supplied as an approximately 50% solution in mineral oil. It is designed for free-radical (co)polymerization processes requiring controlled initiation at elevated temperatures and offers good thermal stability and handling characteristics.

2. Typical Applications

- Bulk polymerization of styrene:Typical temperature range: ~90–120 °C
- (Co)polymerization of:Styrene/Acrylonitrile/Acrylates and methacrylates/Typical temperature range: ~95–125 °C

Perovion® TBPC L22-50 may be used alone or in combination with other initiators to fine-tune polymerization kinetics, subject to process design.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical form	–	Clear liquid	Visual
Assay	%	49.0 – 51.0	Internal
Active oxygen (total)	%	6.02 – 6.27	Internal
Active oxygen (peroxide)	%	~12.29	Calculated
Color	Pt-Co (APHA)	≤30	Internal
Density (20 °C)	g/cm³	~0.900	Internal
Viscosity (20 °C)	mPa·s	~35	Internal

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Property	Unit	Typical Value	Test Method
Hydroperoxides (as TBHP)	%	≤0.099	Internal
Molecular weight (active)	–	260.4	Calculated

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

4. Recommended Use

Perovion® TBPC L22-50 is typically selected for styrenic and acrylic polymerization systems operated at elevated temperatures. Initiator concentration, temperature profile, and combinations with other initiators should be evaluated and validated by the user prior to production use.Perovion® TBPC L22-50 is typically selected for styrenic and acrylic polymerization systems operated at elevated temperatures. Initiator concentration, temperature profile, and combinations with other initiators should be evaluated and validated by the user prior to production use.

5. Packaging & Logistics

Perovion® TBPC L22-50 is supplied in standard industrial liquid packaging formats (e.g., 30-L HDPE cans, ~25 kg solution), subject to confirmation at the quotation stage.

6. Quality & Documentation

Each batch of Perovion® TBPC L22-50 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® TBPC L22-50 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 (Ts max.): ≤25 °C

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