

Antioxidant 168

CAS No.	EINECS No.	UN No.	Molecular Formula / Product Type
31570-04-4	250-709-6	Not assigned in stated reference	C42H63O3P; 646.92 g/mol

Product Description

Antioxidant 168 is a phosphite secondary antioxidant used to decompose hydroperoxides during polymer processing. It can be evaluated alongside a primary hindered-phenol antioxidant.

Specifications

Parameter	Specification
Appearance	White crystalline powder
Purity	≥99 %
Melting range	181–187 °C
Volatile matter	≤0.3 %
Acid value	≤0.3 mg KOH/g
2,4-Di-tert-butylphenol	≤0.3 %
Transmittance at 425 nm, agreed method	≥98 %
Transmittance at 500 nm, agreed method	≥98 %

Applications

- Polymer processing: Assess melt-processing stability and color in the intended thermoplastic formulation.
- Combined antioxidant systems: Compare phosphite and primary antioxidant combinations under representative processing conditions.
- Elastomer compounds: Evaluate stabilization, dispersion and aging behavior in qualified elastomer systems.

Packaging and Storage

Packaging	20 kg bags or cartons.
Storage	Keep tightly closed in a cool, dry, ventilated place. Protect against moisture and contamination; keep away from incompatible materials. Protect against moisture; avoid strong oxidizers.

Safety and Regulatory

Professional-use technical information. Review the corresponding reference SDS, workplace controls and destination-market requirements. Transport entries apply to the reference identity, form and concentration.

Company Contact

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The information is provided in good faith for professional evaluation. Specifications apply to the stated commercial grade; users must confirm suitability, regulatory compliance and safe handling for their intended application.