

Antioxidant 703

Aminomethyl hindered-phenol antioxidant for selected rubber, polymer and lubricant formulations.

CAS No. 88-27-7	EC / List No. 201-816-1	Transport Non-dangerous goods
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Product Information

Antioxidant 703, CAS 88-27-7, is 2,6-di-tert-butyl-4-(dimethylaminomethyl)phenol. This aminomethyl hindered phenol is selected for oxidation-control development in rubber, polymer and lubricant formulations. The exact phenolic structure distinguishes it from other numbered antioxidant grades.

Specifications

Parameter	Specification
Appearance	White to pale-yellow powder
Melting point	≥92 °C
Water	≤0.30 %
Heating loss	≤0.30 %
Ignition residue	≤0.10 %

Supply specifications follow the stated ZXCHEM TDS. Select the grade against the intended process and evaluate the complete formulation.

Typical Properties

Property	Typical Value
Molecular formula	C17H29NO
Molecular weight	263.43 g/mol

Applications

Rubber and latex stabilization: Antioxidant for selected elastomer and latex development. Test dispersion, cure compatibility, colour and aged mechanical performance.

Polymer stabilization: Hindered-phenol additive for selected polymer systems. Evaluate processing stability, additive compatibility and long-term ageing.

Lubricants and industrial oils: Oxidation-control ingredient for selected oil formulations. Assess solubility, oxidation behaviour and the full additive package.

Packaging / Storage

Item	Information
Packing	20 kg lined bags
Storage	Keep tightly closed in a cool, dry, shaded area, protected from air and moisture. Retain any specified inert-gas storage procedure and separate from oxidizers.
Handling	Use enclosed powder feeding or local extraction. Wear suitable protective gloves, eye protection and work clothing; avoid dust inhalation and direct contact. Provide controls for fumes during hot processing.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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