

Dibenzothiazole Disulfide (MBTS)

Thiazole vulcanization accelerator for selected natural and synthetic rubber compounds.

CAS No. 120-78-5	EC / List No. 204-424-9	Transport Class 9 — Environmentally hazardous solid
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Product Information

MBTS is dibenzothiazole disulfide, a thiazole-family rubber accelerator identified by CAS 120-78-5. It is used in selected sulfur-vulcanization packages for natural rubber and synthetic elastomers. The disulfide differs from mercaptobenzothiazole, often abbreviated MBT.

Specifications

Parameter	Specification
Appearance	White to light-yellow powder or granules
Initial melting point	≥166 °C
Heating loss	≤0.40 %
Ash	≤0.50 %
Residue on 150 µm sieve	≤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	C ₁₄ H ₈ N ₂ S ₄
Molecular weight	332.49 g/mol

Applications

Sulfur vulcanization packages: Thiazole accelerator for selected natural rubber and synthetic elastomers. Compare scorch safety, cure rate and the complete sulfur package.

Tires and molded rubber: Ingredient for selected tire and molded-rubber development. Test mixing dispersion, cure response, mechanical properties and ageing.

Industrial elastomer articles: Accelerator for selected seals, hoses and technical rubber. Evaluate processing time, cured modulus and service-condition retention.

Packaging / Storage

Item	Information
Packing	25 kg woven bags with inner liners
Storage	Keep sealed in a cool, dry, ventilated warehouse. Protect from moisture, heat and contamination; store away from incompatible chemicals.
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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