

N-tert-Butyl-2-benzothiazolesulfenamide (TBBS)

Delayed-action sulfenamide accelerator for selected sulfur-vulcanized rubber formulations.

CAS No. 95-31-8	EC / List No. 202-409-1	Transport Class 9 — Environmentally hazardous solid
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Product Information

TBBS is N-tert-butyl-2-benzothiazolesulfenamide, CAS 95-31-8, a sulfenamide rubber accelerator. Selected cure systems use its delayed-action response to balance processing safety with vulcanization speed. It differs from CBS, MBTS and other benzothiazole-family accelerators.

Specifications

Parameter	Specification
Appearance	White to light-yellow powder or granules
Purity	≥96.0 %
Initial melting point	≥104 °C
Heating loss	≤0.40 %
Ash	≤0.30 %
Residue on 150 µm sieve	≤0.10 %
Methanol-insoluble matter	≤1.0 %
Free amine	≤0.50 %

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 ₁₁ H ₁₄ N ₂ S ₂
Molecular weight	238.37 g/mol

Applications

Delayed-action cure systems: Sulfenamide accelerator for selected sulfur cure packages. Evaluate scorch safety, cure speed and modulus development.

Tires and molded rubber: Ingredient for selected tire and molded-rubber compounds. Compare mixing dispersion, cure uniformity and aged mechanical properties.

Industrial rubber formulations: Component for selected technical elastomer goods. Test the full accelerator balance, processing window and end-use performance.

Packaging / Storage

Item	Information
Packing	25 kg lined bags
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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