

Thiourea Dioxide

Reducing agent for textile reduction cleaning, dye processing and paper deinking formulations.

CAS 1758-73-2	EC 217-157-8	Transport Class 4.2 · UN 3341 · PG II
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Product Information

Thiourea dioxide is also known as formamidinesulfonic acid. The crystalline grade controls assay, residual thiourea, moisture, iron and sulfate. Reducing behavior depends on solution conditions and the application, so dosage and activation conditions must be established through process trials.

Specifications

Parameter	Specification
Appearance	White crystalline powder
Purity	≥99.0 %
Residual thiourea	≤0.10 %
Moisture	≤0.05 %
Iron	≤10 ppm
Sulfate	≤0.17 %

Typical Properties

Property	Typical Value
Molecular formula (component)	CH ₄ N ₂ O ₂ S
Molecular weight (component)	108.12 g/mol

Applications

Textile reduction cleaning: Evaluate the reducing agent for disperse-dye reduction cleaning and related textile operations.

Dye stripping and vat cleaning: Assess color stripping or dye-vat cleaning with the intended dye and substrate.

Paper deinking formulations: Evaluate relevant reductive bleaching or deinking applications using the specified grade.

Packaging / Storage

Item	Information
Packaging	25 kg net bags, 50 kg fiber drums or 180 kg iron drums; confirm authorized dangerous-goods packing for the consignment.
Storage	Store dry in closed original packaging with suitable temperature control; the solid reference recommends refrigeration. Protect from sunlight and moisture. Separate from acids, strong bases and oxidizers; maintain air gaps between stacks.

Company Contact

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