

Hexamethylenetetramine (Hexamine)

Nitrogen-containing curing intermediate for selected phenolic resins and industrial polymer systems.

CAS No. 100-97-0	EC / List No. 202-905-8	Transport Class 4.1 — Flammable solid
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Product Information

Hexamine is hexamethylenetetramine, CAS 100-97-0, a cage-structured nitrogen-containing compound. Industrial grades are used in selected phenolic-resin curing and specialty chemical processes. The crystalline ingredient should be compared by assay and impurity limits rather than trade name alone.

Specifications

Parameter	Specification
Appearance	White crystalline powder
Assay	≥99.0 %
Water	≤0.50 %
Ash	≤0.05 %
Chloride	≤0.001 %
Sulfate	≤0.015 %
Ammonium salts	≤0.020 %
Lead	≤0.001 %

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 ₆ H ₁₂ N ₄
Molecular weight	140.19 g/mol

Applications

Phenolic resin curing: Curing ingredient for selected phenolic and novolac systems. Evaluate gel time, cure conversion, processing fumes and cured performance.

Industrial polymer packages: Intermediate for selected polymer and rubber formulations. Assess dispersion, compatibility, cure response and service properties.

Specialty chemical synthesis: Nitrogen-containing feedstock for selected industrial chemistry. Evaluate reaction stoichiometry, impurities and controlled processing conditions.

Packaging / Storage

Item	Information
Packing	25 kg woven bags with inner liners
Storage	Keep sealed in a cool, dry, ventilated flammable-solids area, away from heat, sparks, flames, acids and oxidizers. Protect against moisture and retain suitable static and ignition controls.
Handling	Use controlled powder feeding with effective extraction. Prevent dust accumulation and ignition sources; use suitable bonding, grounding and protective equipment. Avoid skin contact and capture cure-processing fumes.

Company Contact

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