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**NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**GB 44022-2024**

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**Safety technical specification for ammonium nitrate**

硝酸铵安全技术规范

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Standardization Administration of China**

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## Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting: Please note that some of the contents of this document may involve patents: The issuing organization of this document does not assume the responsibility for identifying patents: This document is proposed and coordinated by the Ministry of Emergency Management of the People's Republic of China: Safety technical specifications for ammonium nitrate

## 1 Scope

GB 44022-2024 is the Chinese national standard on safety technical specification for ammonium nitrate, in the field of chemical technology. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 29 April 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 November 2024. Classification: ICS 71.020, CCS G 01. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document stipulates the basic requirements for ammonium nitrate production enterprises in terms of design, etc., as well as the safety requirements for production, storage, and emergency disposal: This document applies to the safety management of production, storage and emergency disposal of ammonium nitrate production enterprises:

This document does not apply to port operations, civilian explosives, and national defense scientific research and production:

## 2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document: For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document:

GB 2894 Safety signs and their use guidelines

GB 15603 General Rules for Storage of Hazardous Chemicals in Warehouses

GB 17914 Technical conditions for storage and maintenance of flammable and explosive commodities

GB 30077 Requirements for emergency rescue supplies for hazardous chemical units

GB 36894 Risk benchmark for hazardous chemical production plants and storage facilities

GB/T 37243 Method for determining external safety protection distances for hazardous chemical production equipment and storage facilities

GB 50016 Code for Fire Protection Design of Buildings

GB 50058 Design specification for electrical installations in explosive atmospheres

GB 50089 Civilian explosives engineering design safety standard

GB 50160 Fire protection design standard for petrochemical enterprises

GB 55037 General code for fire protection of buildings AQ3009 Electrical explosion-proof safety specifications for hazardous locations AQ3047 Specification for safety warning signs in chemical workplaces HG/T 4335:

## 3 Terms and definitions

The following terms and definitions apply to this document: 3:1 tubular reactor method tubular reactor method The invention relates to a method for producing ammonium nitrate by reacting dilute nitric acid with gaseous ammonia under certain temperature and pressure conditions in a tubular reactor: 3:

2 The invention relates to a method for producing ammonium nitrate by reacting dilute nitric acid with gaseous ammonia under certain temperature and pressure conditions in a volumetric reactor: