

ICS 71.100.30
CCS G89



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

GB 28286-2024

Replacing GB 28286-2012

General requirements of industrial explosive

工业炸药通用技术条件

Issued on: August 23, 2024

Implemented on: September 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions

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. This document replaces GB 28286-2012 "General Technical Requirements for Industrial Explosives" and GB 14493-2003 "Packaging of Industrial Explosives". Compared with GB 28286-2012 and GB 14493-2003, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Added a chapter on "Terms and Definitions" (see Chapter 3);
- Added the classification of industrial explosives according to their composition characteristics and physical state characteristics and the classification according to detonation sensitivity (see 4.1.1 and 4.1.2);
- Added "basic requirements" to replace the mandatory provisions in the original document "requirements" that do not have performance index requirements or test methods Content inclusion basic requirements (see Chapter 5);
- Added the provisions on the toxic gas content after explosion of non-detonator-sensitive explosives for non-mine tunnels (see 6.2);
- Deleted the provisions on the classification of industrial explosives and classification by applicable sites (see 3.2 of GB 28286-2012);
- Deleted the following items. explosive formula design should not contain substances that are detrimental to safety, harmful to health, pollute the environment, and substances that are prohibited by the state Provisions on substances used (see 4.1.1 of GB 28286-2012);
- Changed the detonation performance and corresponding indicators to "specified in the

enterprise's technical documents" (see 5.3,

4.4 of GB 28286-2012);

--- Changed the relevant contents of factory inspection and type inspection (see 8.2, 8.3,

1 Scope

GB 28286-2024 is the Chinese national standard on general requirements of industrial explosive, 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 23 August 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 September 2025. Classification: ICS 71.100.30, CCS G89. 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 provides the classification and naming of industrial explosives, specifies basic requirements, technical requirements, inspection rules, marking (identification) and packaging, and describes The corresponding test methods are described. This document applies to industrial explosives. This document does not apply to industrial explosives containing gunpowder.

2 Normative references

The contents of the following documents constitute 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 190 Dangerous Goods Packaging Marking

GB/T 9969 General principles for instructions for use of industrial products

GB/T 10111 Generation of random numbers and their application in product quality sampling inspection

GB/T 12436 Lead method for testing the performance of explosives

GB/T 12440 Explosive strength test - Lead column compression method

GB/T 13228 Determination of detonation velocity of industrial explosives

GB/T 17582 Classification and naming rules for industrial explosives

GB/T 18097 Test method and determination of safety of combustible gas in permissible explosives for coal mines

GB/T 18098 Determination of toxic gas content after explosion of industrial explosives

GB/T 20061 Test method and determination of anti-deflagration performance of explosives

permitted for coal mines AQ1043 Mining Product Safety Signs and Labels GA921 General

Rules for Warning Labels and Registration Labels for Civilian Explosives MT/T 931

Technical specifications for small diameter coil explosives WJ/T 9051 Test method for safety

of permissible explosives in coal mines - coal dust-flammable gas WJ/T 9052.1 Test method

for sensitivity of industrial explosives Part

1. Friction sensitivity WJ/T 9052.2 Test methods for sensitivity of industrial explosives Part

2. Impact sensitivity WJ/T 9052.3 Test methods for sensitivity of industrial explosives Part

3. Thermal sensitivity of aqueous explosives WJ/T 9054 Test method for stability of industrial

explosives - Differential scanning calorimetry WJ/T 9055 Test method for detonation

distance of industrial explosives WJ/T 9056.1 Method for determination of density of

industrial explosives Part

3 Terms and definitions

The following terms and definitions apply to this document.