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

GB 19417-2025

Replacing GB 19417-2003

**General safety and technology requirements of commercial
detonator**

工业雷管通用安全技术要求

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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. This document replaces GB 19417-2003 "Detonating Cord Detonators". Compared with GB 19417-2003, except for structural adjustments and editorial changes, In addition, the main technical changes are as follows:

- Changed the scope (see Chapter 1, Chapter 1 of the.2003 edition);
- Added applicable terms and definitions (see Chapter 3);
- Changed the classification and nomenclature (see 4.1, 4.2, Chapter 3 of the.2003 edition);
- Added requirements for the material and identity information of industrial detonators (see 5.1, 5.2);
- Changed the description of appearance requirements (see 6.1, 4.1 of the.2003 edition);
- Deleted the requirements for the length of the detonating tube (see 4.2 of the.2003 edition);
- Added requirements for the insulation performance of industrial electric detonators and industrial electronic detonator leg wires (see 6.2);
- Added the requirements for the maximum non-ignition current of industrial electric detonators (see 6.3);
- Added electrostatic sensitivity of industrial electric detonators and industrial electronic detonators (see 6.4);
- Changed the requirements for seismic resistance and tensile resistance (see 6.5, 6.6, 4.3.1,

1 Scope

GB 19417-2025 is the Chinese national standard on general safety and technology requirements of commercial detonator, 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 30 May 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 June 2026. Classification: ICS 71.100.30, CCS G 89. 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 gives the classification and nomenclature of industrial detonators, specifies safety technical requirements, inspection rules, marking (identification) and packaging, and describes the test method. This document applies to the scientific research, production, testing and acceptance of industrial detonators. This document is not applicable to industrial detonators for oil and gas wells or other special ranges.

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 4387 Industrial enterprise in-plant transportation safety regulations

GB 8031 Industrial electric detonators

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 14436 General Principles for Industrial Product Warranty Documents

GB/T 14659 Terminology of civil blasting equipment

GB/T 18014 Polyvinyl chloride insulated wire for electric detonator detonation

GB 18096 Test method for safety of combustible gas in electric detonators for use in coal mines

GB/T 27602 Determination of radio frequency sensitivity of industrial electric detonators

GB 28263 Safety management regulations for enterprises producing and selling civil explosives

GB 50089 Safety code for engineering design of civil blasting equipment GA441 General rules for industrial detonators GA921 General Rules for Warning Labels and Registration Labels for Civilian Explosives GA1531 General Rules for Information Management of Industrial Electronic Detonators WJ/T 9010 Corrugated paper boxes for packaging industrial detonators WJ/T 9031 Classification and naming rules of industrial detonators WJ/T 9042 Test method for electrostatic sensitivity of industrial electric detonators WJ/T 9074 Test method for impact sensitivity of industrial detonators WJ/T 9085 Industrial electronic detonator WJ/T 9103 Industrial electronic detonator voltage impulse test method WJ/T 9104 Test method for drop resistance of industrial detonators WJ/T 9105 Test method for bending resistance of industrial detonators

3 Terms and definitions

The terms and definitions defined in GB/T 14659, GB 28263, GA1531 and WJ/T 9085 apply to this document.