

ICS 13.300;71.100.30
CCS A87



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

GB 14371-2024

Replacing GB 14371-2013

**Dangerous goods - Requirements of the hazard classification
procedure and compatibility for explosives**

危险品 爆炸品的认可和分项试验程序及配装要求

Issued on: August 23, 2024

Implemented on: September 1, 2025

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

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms, definitions and abbreviations
- 3.1 Terms and Definitions The terms and definitions defined in

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 14371-2013 "Approval and sub-item test procedures and packing requirements for explosives for transport of dangerous goods" and Compared with GB 14371-2013, in addition to structural adjustments and editorial changes, the main technical content changes are as follows:

- a) The explosives sub-item test procedure has been changed (see Figure 3, Figure 3 of the.2013 edition);
- b) The test procedure for Group 8 has been changed (see Figure 4, Figure 4 of the.2013 edition);
- c) The test procedures for the sub-items of
1.6 items have been changed (see Figure 5, Figure 5 of the.2013 edition);
- d) In the third group of test items, the 75°C simulated stack spontaneous ignition temperature (SBAT) thermal stability test method is added (see Table 3);
- e) Susan impact test and brittleness test were added to the test items of group 7 (see Table 3);
- f) Added the minimum self-sustaining combustion pressure test to the 8th test group (see Table 3);
- g) Added approval and sub-test procedures for desensitized explosives, added a 9th group test item, burning rate test (see Chapter 8). 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 National Standardization Administration. The previous versions of this document and the documents it replaces are as follows:

---First issued as GB 14371-1993 in.1993, first revised in.2005, second revised in.2013;

---This is the third revision. Dangerous Goods Approval and sub-item test procedures and assembly requirements for explosives

1 Scope

GB 14371 is the procedure by which an explosive substance or article is admitted to transport in China and assigned to a hazard division and a compatibility group. It sets the acceptance procedure, the series of tests that decide whether a substance is too dangerous to carry at all and, if not, which of the divisions 1.1 to 1.6 it belongs to, and the compatibility groups A to S that determine what may be loaded together with it. It is the document a manufacturer of explosives, a testing laboratory and a carrier all work from, and it aligns China's classification with the UN model regulations. Issued on 23 August 2024, in force since 1 September 2025, replacing GB 14371-2013. 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 edition it replaces are taken from there. The clause text, the tables and the numeric limits are not reproduced on this page - they are in the document itself, which is delivered in full in English translation.

This document defines the hazard approval and sub-item testing procedures for explosives and desensitized explosives, and clarifies the definition of compatibility groups. This document applies to various substances with deflagration or explosion characteristics¹⁾ or their articles (explosives and desensitized explosives specified in GB 6944) This document is not applicable to the assessment of the following hazards. 1) The substances in this document include pure substances and their mixtures.

- a) The dangers of explosives during the production process;
- b) The hazards of unpackaged explosive substances in transport;
- c) Dangers caused by static electricity or electromagnetic fields;
- d) Hazards caused by improper operation or illegal operation;
- e) Other special hazards under abnormal transportation conditions;
- f) The dangers of missiles and nuclear weapons.

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 6944 Classification and product name number of dangerous goods

GB 12268 List of Dangerous Goods

GB/T 14372 Approval and sub-item test methods for explosives in the transport of dangerous goods

GB/T 14659 Terminology of civil blasting equipment

GB/T 22232 Determination of thermal stability of chemical substances - Differential scanning calorimetry "List of Civilian Explosives" (MIIT Joint Safety [2022] No. 60)

3.1 Terms and Definitions The terms and definitions defined in

GB/T 14659 and the following apply to this document.

3.1.1 Explosive substance A solid or liquid that can generate gas through its own chemical reaction, and the temperature, pressure and speed of the reaction product are so high that it can cause damage to the surrounding area. Liquid substances (including mixtures).

NOTE. Pyrotechnic substances (see 3.1.10) are included even if they do not evolve gases.