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

**GB/T 14372-2024**

Replacing GB/T 14372-2013

**Dangerous goods - Test methods for the acceptance and  
classification of explosives**

危险品 爆炸品的认可和分项试验方法

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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/T 14372-2013 "Test methods and criteria for explosives in the transport of dangerous goods" and is in line with GB/T 14372- Compared with.2013, in addition to structural adjustments and editorial changes, the main technical content changes are as follows:

--- Added the 75°C simulated stack spontaneous combustion temperature (SBAT) thermal stability test in the third group of test items (see 6.5.2);

--- Added brittleness test in test group 7 (see 10.3.2);

--- Added the minimum self-sustaining combustion pressure (MBP) test in the eighth test group (see 11.5);

--- Added Group 9 burning rate test (external flame) items (see Chapter 12). 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 Technical Committee for Standardization of Hazardous Chemicals Management (SAC/TC251). This document was drafted by: Nanjing University of Science and Technology, Xi'an Institute of Modern Chemistry, China Inspection and Traceability Jiangsu Technical Service Co., Ltd., Harbin Institute of Technology University of Science and Technology, China Ordnance Industry Explosives Engineering and Safety Technology Research Institute, China Petroleum and Chemical Industry Federation, Changzhou Compliance Siyuan Products SECURITY TECHNOLOGY SERVICES LIMITED. The main drafters of this document are. Wu Xingliang, Zhao Zheng, Liu Jie, Gao Qiang, Zhang Shian, Xu Sen, Wang Yongxu, Li Suling, Lian Zheng, Li Wenhai, Zhang Huaiting, Gu Xiaoqing, Jin Penggang, Zhang Jianxin, Jiang Zaixing, Cao Mengran, Chen Yiwen, Hao Yuan, Wang Yan, Rong Xiao, and Wu Ke. The previous versions of this document and the documents it replaces are as follows:

---First issued as GB/T 14372-1993 in.1993, first revised in.2005, second revised in.2013;

---This is the third revision. Dangerous goods Approval and test methods for explosives Warning. The person using this document should have practical experience in regular laboratory work. Special attention should be paid to the test process involving explosions. The use of products requires relevant qualifications and site conditions or entrusting the operation to a unit with relevant conditions. This document does not indicate all possible For safety issues, users are responsible for taking appropriate safety and health measures.

## 1 Scope

GB/T 14372-2024 specifies the test methods by which a substance or article is accepted into Class 1 of the dangerous goods classification and assigned to a division within it. This

is the Chinese implementation of the UN test series 1 to 8, and it is the gateway to the whole transport regime for explosives: whether something is an explosive at all, whether it is too dangerous to transport in any form, which of the six divisions it belongs to, and which compatibility group. The consequences are commercial as much as regulatory, since a division 1.1 assignment and a division 1.4 assignment for the same article mean entirely different packaging, quantity limits, vehicle requirements and routes. The standard sets out the test series, the apparatus and the procedure for each test, the criteria by which the result is interpreted, and the decision logic that leads from the results to the classification. The 2024 edition replaces GB/T 14372-2013. For an explosives maker, a fireworks or airbag propellant producer, or an authority in China, this is the classification text.

This document specifies the tests required for the approval and classification of explosives and desensitized explosives (explosives and desensitized explosives specified in GB 14371) Principle of the method, instruments and materials, test conditions, test procedures and presentation of results. This document applies to the approval and sub-item testing of explosives and desensitized explosives.

## 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/T 700-2006 Carbon Structural Steel

GB/T 3639-2021 Cold drawn or cold rolled precision seamless steel tube

GB/T 3880.3-2024 Aluminium and aluminium alloy plates and strips for general industrial use Part

## 3 Dimensional deviations

GB 8031-2015 Industrial electric detonators

GB/T 11253-2019 Carbon structural steel cold-rolled steel plate and strip

GB 14371 Dangerous Goods Transport Explosives Approval and Itemization Procedures and Packing Requirements

GB/T 20878-2007 Stainless steel and heat-resistant steel grades and chemical compositions

GB/T 21298-2007 Laboratory glassware test tubes

GB/T 21566 Test method for friction sensitivity of dangerous goods and explosives

GB/T 21567 Test method for impact sensitivity of dangerous goods and explosives

GB/T 44187-2024 Dangerous goods Extremely insensitive articles (

1.6 items) without mass explosion hazard Slow heating test

GB/T 44188-2024 Test methods for unconstrained packages of dangerous goods and explosives

GB/T 44358-2024 Dangerous goods Extremely insensitive articles (

1.6 items) without mass explosion hazard Fragment impact test method

### **3.1 Terms and Definitions The terms and definitions defined in**

GB 14371 apply to this document.

3.2 Abbreviations The following abbreviations apply to this document.