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

**GB/T 24626-2025**

Replacing GB/T 24626-2009

**Explosion resistant equipment**

耐爆炸设备

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## Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 24626-2009 "Explosion-resistant Equipment". Compared with GB/T 24626-2009, the main differences are structural adjustments and editorial changes. Aside

from the modifications, the main technical changes are as follows:

- A design procedure for explosion-resistant pressure shock equipment has been added (see 6.2);
- Requirements for materials resistant to explosive pressure shock have been added (see 6.3);
- The requirements for explosion-proof design have been changed (see 6.4.2, 6.2 in the 2009 edition);
- Special requirements have been added for bolted connection structures (see 6.4.4);
- Added a design quality test procedure for explosion pressure shock (see 6.5);
- Added design and testing documentation requirements for shock-resistant equipment (see 6.6). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Electrical Equipment Industry Association. This document is under the jurisdiction of the National Technical Committee on Standardization of Explosion-proof Electrical Equipment (SAC/TC9). This document was drafted by: Nanyang Explosion-proof Electrical Research Institute Co., Ltd., Wuhan University of Technology, and China Coal Technology & Engineering Group Shenyang Research Institute Co., Ltd. Company, Shanghai Coal Science & Technology Testing Technology Co., Ltd., Huarong Technology Co., Ltd., China Petroleum & Chemical Engineering Construction Co., Ltd., Nanyang Zhongtian Explosion-proof Electric Gas Co., Ltd. The main drafters of this document are: Wang Jun, Liu Qinghua, Zhang Hongkui, Chen Xianfeng, Zhou Jing, Li Bin, Wang Qiaoli, Ma Qiuju, Huang Chuyuan, Zhang Gang, and Lin Sen. Zhang Peng, Wang Yingying, Zhu Guanghui, Guo Fei. The release history of this document and the document it replaces is as follows:

---First published in 2009 as GB/T 24626-2009;

---This is the first revision.

A complete set of explosion safety principles includes the following measures that manufacturers are required to take.

- a) Prevent the formation of an explosive atmosphere;
- b) Prevent ignition of explosive atmospheres;

## 1 Scope

GB/T 24626-2025 is the Chinese national standard covering equipment built to survive a blast rather than to prevent one - the overpressure and impulse it is rated against, the structural design and the fixings that have to hold, the testing by explosive charge or shock

tube, and the classification. It replaces GB/T 24626-2009, in force from 1 May 2026. It was issued on 31 October 2025 and has been in force since 1 May 2026, replacing GB/T 24626-2009. The document is under the responsibility of the China Electrical Equipment Industry Association. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the general requirements for explosion-resistant equipment, the requirements for explosion-resistant pressure equipment, the requirements for explosion-resistant pressure impact equipment, and quality control requirements. Requirements for components and usage information. This document applies to equipment and devices where explosions are considered abnormal load conditions, deflagration may occur, and where explosion resistance is provided by metallic materials. combination. The atmospheric conditions applicable to this document are. pressure range of 80kPa to 110kPa and temperature range of -20°C to 60°C.

Note. This document may also be helpful for the design, manufacture, testing, and marking of equipment used in environments outside the scope of the above-mentioned scope, provided that such equipment does not pose a risk to... The corresponding standard requirements. This document does not apply to equipment and equipment combinations that may detonate, equipment designed with explosion-proof enclosures, or offshore facilities.

## 2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 228.1 Metallic materials - Tensile testing - Part

## 3 Terms and Definitions

The terms and definitions defined in GB/T 2900.35 and the following terms and definitions apply to this document.

3.1 Explosion Violent oxidation or decomposition reactions that lead to increased temperature and/or pressure.

Note. The "explosion" here mainly refers to a "chemical explosion".

3.2 deflagration An explosion that propagates at subsonic speeds.

3.3 Detonation An explosion that propagates at supersonic speeds and has shock wave characteristics.

3.4 Explosion resistant Containers and equipment are designed to withstand explosive pressure or explosive pressure shocks.

Note. Explosion-resistant equipment has this characteristic.

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