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

GB 6222-2025

Replacing GB 6222-2005

Safety specification for gas of industrial enterprises

工业企业煤气安全规范

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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 6222-2005 "Safety Regulations for Coal Gas in Industrial Enterprises".

Compared with GB 6222-2005, the only changes are structural adjustments and editing. Aside from the sexual alterations, the main technical changes are as follows:

---The definition and related requirements for partition devices have been revised (see 3.3, 7.2,.2005 edition of 3.3, 7.2);

---The terms "gas venting device" and "spectacles valve" have been added (see 3.7, 3.11);

---The general requirements for gas safety management in industrial enterprises have been revised (see Chapter 4, Chapter 4 of the.2005 edition);

---Added safety technical requirements for the recovery and purification of ferroalloy furnace gas (see 5.7);

---The safety technical requirements for bag filters and residual pressure turbine power generation units have been revised (see 5.3.2.5, 5.3.2.7,.2005 edition). 5.3.2.5, 5.3.2.6);

---The requirements for anti-static and lightning protection measures for gas pipelines have been revised (see 6.1.2,

6.1.3 in the 2005 edition);

---Changed the minimum horizontal distance between overhead gas pipelines and buildings/structures, overhead power lines, insulated cables, railways, roads, and adjacent pipelines. Clear distance and minimum perpendicular clearance at intersections (see 6.2.1.3, 6.2.1.4, and

6.2.1.5 in the 2005 edition);

---Added minimum horizontal clearance between underground gas pipelines and buildings/structures, and minimum vertical clearance at intersections (see 6.2.2.9). 6.2.2.10);

---Added calculation pressure requirements for the gas pipeline after the converter gas extractor [see 6.4.2f];

---Added requirements for corrosion protection of gas pipelines (see 6.5);

1 Scope

GB 6222-2025 is the Chinese national standard on safety specification for gas of industrial enterprises, in the field of environment and health protection, safety. 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 31 October 2025 by the State Administration for Market Regulation;

Standardization Administration of China, and has been in force since 1 May 2026.

Classification: ICS 13.100, CCS C67. 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 specifies the types of generators, water-gas furnaces, semi-water-gas furnaces, vertical continuous carbonization furnaces, blast furnaces, converters, and coke ovens within industrial enterprise premises. The design, management, operation, maintenance, repair, and repair of facilities for the production, recovery, purification, transmission, distribution, storage, and use of coal gas from furnaces, ferroalloy furnaces, and other similar equipment. Emergency response and other safety management and technical requirements are outlined, along with corresponding verification methods. This document applies to gas facilities within industrial plant premises. This document does not apply to the production of methane, methanol, hydrogen, or other industrial products using coal gas as a raw material, nor to the main and branch pipelines of urban coal gas. Gas facilities such as courtyard pipe networks and pressure regulating systems.

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 2894 Safety Colors and Safety Signs

GB 4053 (all parts) Safety requirements for fixed steel ladders and platforms

GB 8958 Safety Regulations for Hazardous Operations in Oxygen Deficiency

GB 12358 General Technical Requirements for Gas Detection and Alarm Instruments in the Workplace

GB 16912 Safety Technical Specification for Oxygen and Related Gases Production by Deep Freezing Method

GB 18218 Identification of Major Hazard Installations of Hazardous Chemicals

GB 50016 Code for Fire Protection Design of Buildings

GB 50019 Code for Design of Heating, Ventilation and Air Conditioning of Industrial Buildings

GB 50057 Code for Design of Lightning Protection of Buildings

GB 50058 Design Code for Electrical Installations in Explosive Atmospheres

GB 50140 Code for Design of Fire Extinguisher Configuration in Buildings

GB 50184 Code for Acceptance of Construction Quality of Industrial Metal Piping Engineering

GB 50195 Design Code for Producer Gasification Stations

3 Terms and Definitions

The following terms and definitions apply to this document.