

ICS 71.100.20
CCS G86



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

GB/T 12022-2025

Replacing GB/T 12022-2014

Industrial sulphur hexafluoride

工业六氟化硫

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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 12022-2014 Industrial Sulfur Hexafluoride. Compared with GB/T 12022-2014, except for the structural adjustment and editing In addition to the functional changes, the main technical changes are as follows:

- Changed the scope (see Chapter 1, Chapter 1 of the.2014 edition);
- Changed the technical requirements that sulfur hexafluoride should comply with (see Chapter 4, Chapter 3 of the.2014 edition);
- Changed the sampling requirements (see Chapter 5, 4.2 of the.2014 edition);
- Changed the requirements for "Warning" (see Chapter 6, 4.3 of the.2014 edition);
- Changed the general provisions of the test method (see 6.1, 4.4 of the.2014 edition);
- Changed the calculation method of sulfur hexafluoride purity (see 6.2, 5.1 of the.2014 edition);
- Changed the determination methods for oxygen and nitrogen, carbon tetrafluoride, hexafluoroethane and octafluoropropane (see 6.3, 5.2, 5.4 of the.2014 edition);

1 Scope

GB/T 12022-2025 is the Chinese national standard on industrial sulphur hexafluoride, in the

field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2026. Classification: ICS 71.100.20, CCS G86. 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.

23 Gas Cylinder Safety Technical Regulations

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 190 Dangerous Goods Packaging Marking

GB/T 601 Preparation of standard titration solutions for chemical reagents

GB/T 603 Preparation of preparations and products used in test methods for chemical reagents

GB/T 3863 Industrial Oxygen

GB/T 4844 Pure helium, high-purity helium and ultra-pure helium

GB/T 5099 (all parts) Steel seamless gas cylinders

GB/T 5832.1 Gas analysis - Determination of trace moisture - Part

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 7144 Color marking of gas cylinders

GB/T 8170 Rules for rounding off values and expression and determination of limit values

GB/T 11640 Aluminum alloy seamless gas cylinders

GB/T 14193 Regulations for filling liquefied gas cylinders

GB 15258 Provisions for the Preparation of Chemical Safety Labels

GB/T 16804 Gas Cylinder Warning Labels

GB/T 28726 Gas analysis-Helium ionization gas chromatography

GB/T 33145 Large volume seamless steel gas cylinders

GB/T 43306 Guidelines for Gas Analysis Sampling TSGR0005 Safety Technical
Supervision Regulations for Mobile Pressure Vessels TSG

3 Terms and Definitions

There are no terms or definitions that require definition in this document.

4 Technical Requirements

The technical requirements for sulfur hexafluoride shall comply with the provisions of Table 1.