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

GB/T 32151.4-2026

Replacing GB/T 32151.4-2015

**Requirements for greenhouse gas emission accounting and
reporting - Part 4: Aluminium smelting enterprises**

温室气体排放核算与报告要求 第4部分：铝冶炼企业

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Standardization Administration of the PRC**

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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 is Part 4 of GB/T 32151, "Requirements for Accounting and Reporting of Greenhouse Gas Emissions". GB/T 32151 has been published as follows: Part 2.

- 1. Power Generation Enterprises;
- 2. Power Grid Enterprises;
- 3. Magnesium Smelting Enterprises;
- 4. Aluminum Smelting Enterprises;
- 5. Steel Production Enterprises;
- 6. Civil Aviation Enterprises;
- 7. Flat Glass Manufacturers;
- 8. Cement Production Enterprises;
- 9. Ceramic Manufacturing Enterprises;
- 10. Chemical Production Enterprises;
- 11. Coal Production Enterprises;
- 12. Textile and Apparel Enterprises;

1 Scope

GB/T 32151.4-2026 is the Chinese national standard covering the carbon accounting of an

aluminium smelter - the electricity, which dominates everything, the carbon anodes consumed, and the perfluorocarbons released during anode effects, which are thousands of times more potent than CO₂ and are peculiar to this industry. Part 4 of the series. It replaces GB/T 32151.4-2015, and aluminium is one of the sectors entering China's emissions trading scheme. It was issued on 28 January 2026 and has been in force since 1 August 2026, replacing GB/T 32151.4-2015. The document is under the responsibility of the Ministry of Ecology and Environment. This page is published from the official record of the 2026 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 accounting boundaries, measurement, monitoring and detection requirements, and accounting procedures for greenhouse gas emissions from aluminum smelting and related enterprises. Accounting methods, data quality management, report content and format. This document applies to the accounting and reporting of greenhouse gas emissions from aluminum smelting enterprises.

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 210 Industrial Sodium Carbonate

GB/T 213 Method for Determination of Calorific Value of Coal

GB/T 384 Determination of calorific value of hydrocarbon fuels - Oxygen bomb calorimeter method

GB/T 476 Methods for the determination of carbon and hydrogen in coal

GB/T 1606 Industrial Sodium Bicarbonate

GB/T 6422 Guidelines for Energy Testing of Energy-Consuming Equipment

GB/T 8984 Gas Analysis - Determination of Trace Carbon Monoxide, Carbon Dioxide and Hydrocarbons in Gases - Flame Ionization Gas chromatography

GB/T 10410 Gas chromatographic analysis of major components of manufactured gas and liquefied petroleum gas

GB/T 11062 Calculation Methods for Calorific Value, Density, Relative Density and Wobbe Index of Natural Gas

GB/T 12208 Method for Determination of Components and Impurities in Manufactured Gas

GB/T 13610 Compositional Analysis of Natural Gas - Gas Chromatography

GB/T 15316 General Technical Rules for Energy Conservation Monitoring

GB 17167 General Rules for the Configuration and Management of Energy Measuring Instruments in Energy-Using Units

17 Determination of volatile matter YS/T

63.18 Test methods for carbon materials for aluminum - Part

18 Determination of moisture content YS/T

63.19 Test methods for carbon materials for aluminum - Part

19 Determination of ash content YS/T

63.20 Test methods for carbon materials for aluminum - Part

20.Determination of sulfur content YS/T 801 Method for Determination of Perfluorinated Carbon Emissions from Electrolytic Aluminum Production