

ICS 13.020.10

CCS Z 04



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

GB/T 32151.36-2024

**Greenhouse gas emission accounting and reporting
requirements - Part 36: Thermal insulation material production
enterprises**

温室气体排放核算与报告要求 第36部分：绝热材料生产企业

Issued on: September 29, 2024

Implemented on: April 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Calculation Step	2
5 Accounting boundaries and emission sources	3
5.1 Calculation Boundary	3
5.2 Emission sources	3
6 Accounting requirements and emission calculation	4
6.1 Total greenhouse gas emissions	4
6.2 Emissions from fossil fuel combustion	4
6.3 Process emissions	5
6.4 Emissions from purchased electricity and heat	6
6.5 Emissions from exported electricity and heat	8
7 Data Quality Management Requirements	8
8 Report content and format	8
8.1 General	8
8.2 Basic information of the reporting entity	9
8.3 Greenhouse gas emissions	9
8.4 Activity data and sources	9
30 Reference	36

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 is part 36 of GB/T 32151.GB/T 32151 has been published in the following parts.

- 1.Power generation enterprises;
- 2.Grid enterprises;
- 3.Magnesium smelting enterprises;
- 4.Aluminium smelting enterprises;

- 5. Iron and steel production enterprises;
- 6. Civil aviation enterprises;
- 7. Flat glass production enterprises;
- 8. Cement production enterprises;
- 9. Ceramic production enterprises;
- 10. Chemical production enterprises;
- 11. Coal production enterprises;
- 12. Textile and clothing enterprises;

1 Scope

China's national requirements for greenhouse gas emission accounting and reporting by thermal insulation material producers. It is Part 36 of GB/T 32151 and specifies the calculation steps, the accounting boundary and emission sources, the accounting requirements and emission calculation, the data quality management, and the content and format of the report, with a boundary schematic, a report format template, default parameter values, a steam enthalpy table, a data quality control plan template and a normative annex on the principles for selecting the electricity carbon dioxide emission factor. The sector it covers is a mixed one and that is what makes the accounting interesting. Thermal insulation materials divide into the mineral products - rock wool, glass wool and foamed glass - and the organic ones, principally expanded and extruded polystyrene and polyurethane foam, and the two are made by entirely different processes with entirely different emission profiles. Mineral wool is made by melting rock or glass in a cupola or a furnace at high temperature, which is a large fuel burn, and the raw materials include carbonates that decompose and release carbon dioxide chemically - a process emission that no change of fuel removes. Organic foams are made by expanding a polymer with a blowing agent, which is a far smaller energy operation but which historically used blowing agents that are themselves powerful greenhouse gases. The calculation clause therefore covers fossil fuel combustion, process emissions, and purchased and exported electricity and heat separately. The inclusion of exported energy is worth noting: a plant with a cupola or a boiler may export steam, and the standard nets that out rather than charging the producer for heat that someone else used. Issued on 29 September 2024 and in force since 1 April 2025.

This document specifies the calculation steps, calculation boundaries and emission sources, calculation requirements and emission standards for greenhouse gas emissions of thermal insulation material manufacturers. quantity calculation, data quality management requirements, and report content and format. This document applies to the accounting and reporting of greenhouse gas emissions by insulation material manufacturers.

2 Normative references

The contents of the following documents constitute 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 210 Industrial Sodium Carbonate

GB/T 213 Method for determination of calorific value of coal

GB/T 384 Determination of calorific value of petroleum products

GB/T 1606 Industrial Sodium Bicarbonate

GB/T 3286.1 Chemical analysis methods for limestone and dolomite Part

1.Determination of calcium oxide and magnesium oxide content Complex drop Flame Atomic Absorption Spectrometry

GB/T 3286.9 Chemical analysis methods for limestone and dolomite Part

9.Determination of carbon dioxide content - Soda asbestos absorption Gravimetric method

GB/T 11062 Calculation method for calorific value, density, relative density and Wobbe index of natural gas

GB 17167 General rules for the allocation and management of energy metering instruments in energy-consuming units

GB/T 24851 Requirements for the deployment and management of energy metering equipment in the building materials industry

GB/T 32150 General principles for accounting and reporting of greenhouse gas emissions from industrial enterprises JJG

4 Verification Procedure for Steel Tape Measures JJG195 Verification procedures for continuous cumulative automatic weighing instruments (belt scales) JJG564 Verification Procedure for Gravity-Type Automatic Loading Scales JJG1118 Verification Procedure for Electronic Truck Scale (Weighing Instrument Load Measuring Instrument Method) JJG2063 Verification procedures for liquid flowmeter instrument verification system table JJG2064 Gas Flow Metering Equipment Calibration System Table

3 Terms and definitions

The terms and definitions defined in GB/T 32150 and the following apply to this document.

3.1 Greenhouse gas The natural and human-caused gases in the atmosphere that absorb

and emit radiation from the Earth's surface, atmosphere, and clouds. The gaseous component of radiation with wavelengths in the infrared spectrum.

chinastandards.org · PREVIEW