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

GB/T 32151.47-2024

**Requirements of the greenhouse gas emission accounting and
reporting - Part 47: Chemical fiber production enterprise**

温室气体排放核算与报告要求 第47部分：化纤生产企业

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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 is Part 47 of GB/T 32151 Greenhouse Gas Emissions Accounting and Reporting Requirements. Lower part.

1. Power generation enterprises;

2. Grid enterprises;
3. Magnesium smelting enterprises;
4. Aluminum 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

GB/T 32151.47-2024 is the man-made fibre part of the Chinese greenhouse gas accounting and reporting series, and China produces the great majority of the world's chemical fibre. The sector's emissions are dominated by energy: polymerisation and spinning need large quantities of steam and electricity, and drawing, texturing and heat setting add more, while the direct process term includes the nitrous oxide and other emissions specific to particular polymer routes and the solvent-recovery systems of the cellulosic processes. The standard sets the accounting boundary of a chemical fibre production enterprise, the measurement and monitoring requirements, the calculation steps and methods for the fuel combustion, process and purchased energy emissions, the data quality management and the content and format of the report, with informative annexes giving the reporting template and the default values of the parameters. For a fibre producer, or for a textile brand asking a Chinese supplier for a verified emissions figure, this is the method behind the number. It takes effect on 1 May 2025.

This document defines the terms and definitions for greenhouse gas emissions accounting and reporting by chemical fiber production enterprises, and stipulates the accounting boundaries, measurement, monitoring, and It also describes the measurement and testing requirements, data quality management, report content and format, and the accounting steps and methods. This document applies to the accounting and reporting of greenhouse gas emissions by chemical fiber production enterprises.

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/T 210 Industrial sodium carbonate

GB/T 213 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 of 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 of limestone and dolomite - Part

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

GB/T 4146 (all parts) Textiles - Chemical Fibers

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

GB/T 15316 General technical principles for energy conservation monitoring

GB 17167 General Rules for the Provision and Management of Energy Metering Instruments in Energy-consuming Units

GB/T 23111 Non-automatic weighing instruments

3 Terms and Definitions

For this document, the terms and definitions defined in GB/T 4146 (all parts) and GB/T 32150-2015 and the following terms and definitions apply.

3.1 Greenhouse gas The energy naturally present in the atmosphere and generated by human activities absorbs and emits energy generated by the Earth's surface, atmosphere and clouds, The gaseous component of radiation that grows in the infrared spectrum.

Note. The greenhouse gases referred to in this document include only carbon dioxide.

[Source: GB/T 32150-2015, 3.1, with modifications]