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

GB/T 47627-2026

**Thermal insulation for industrial application - Cellular glass
products - Specification**

工业用绝热材料 泡沫玻璃制品 规范

(English Translation)

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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 modified to adopt ISO 24285:2022 "Specification for foamed glass products for insulation of building equipment and industrial installations".

This document has undergone significant structural adjustments compared to ISO 24285:2022. A table comparing the structural numbering changes between the two documents is provided.

See Appendix A.

This document differs significantly from ISO 24285:2022. The relevant clauses are indicated in vertical margins.

A single line (|) is used for marking. A summary of these technical differences and their causes can be found in Appendix B.

The following editorial changes have been made to this document.

---The standard name has been changed from "Specification for Thermal Insulation Materials and Foamed Glass Products for Building Equipment and Industrial Installations" to "Specification for Industrial Use".

Specifications for Foam Glass Insulation Materials;

---Some of the notes have been adjusted.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Building Materials Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Thermal Insulation Materials (SAC/TC191).

1 Scope

This document specifies the foam glass products used for insulation of building equipment and industrial installations, and pipelines with an operating temperature range of -265°C to 430°C.

The requirements, inspection rules, markings and labels describe the test methods.

This document applies to products with a thermal conductivity of no more than 0.065 W/(m·K) at an average temperature of 10°C, in the form of flat plates, pipe sections, or modules.

Foamed glass products with prefabricated components.

This document does not apply to foam glass for building applications.

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 4132 Thermal insulation terminology (GB/T 4132-2023, ISO 9229:2020, IDT) GB/T 5486 Test methods for inorganic rigid thermal insulation products GB 8624 Classification of fire performance of building materials and products GB/T 10294 Determination of steady-state thermal resistance and related properties of thermal insulation materials-protective hot plate method (GB/T 10294-2008) ISO 8302:1991, IDT GB/T 10295 Determination of steady-state thermal resistance and related properties of thermal insulation materials-Heat flow meter method (GB/T 10295-2008, ISO 8301.

1991, IDT)

GB/T 10296 Determination of steady-state heat transfer properties of insulation layers - Circular tube method (GB/T 10296-2008, ISO 8497:1994, IDT) GB/T 11835-2016 Rock wool, slag wool and their products for thermal insulation GB/T 13480 Determination of compressive properties of thermal insulation products for building (GB/T 13480-2014, ISO 29469:2008, IDT) GB/T 17146-2015 Test Method for Water Vapor Permeability of Building Materials and Their Products (GB/T 17146-2015) ISO 12572:2001, MOD) GB/T 17393 Specification for Thermal Insulation Materials for Austenitic Stainless Steel GB/T 30806 Test method for dimensional stability of building insulation products under specified temperature and humidity conditions (GB/T 30806-2014, ISO 29472:2008, IDT) GB/T 30807-2025 Determination of long-term water absorption of building insulation products by

immersion method (GB/T 30807-2025, ISO 16535.

2019, IDT)

GB/T 32983 Determination of compressive creep properties of thermal insulation products for building (GB/T 32983-2025, ISO 16534:2020) IDT) ISO 12628 Determination of dimensions, verticality and linearity of insulation layers for prefabricated piping in building equipment and industrial installations (Ther-ISO 18097 Determination of the maximum operating temperature of thermal insulation products for building equipment and industrial installations.

perature)