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

GB/T 35608-2024

Green product assessment - Thermal insulation materials

绿色产品评价 绝热材料

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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 is required. This document replaces GB/T 35608-2017 "Green Product Evaluation of Thermal Insulation Materials". Compared with GB/T 35608-2017, except for the structural In addition to adjustments and editorial changes, the main technical changes are as follows:

a) The scope of application of the standard has been changed (see Chapter 1, Chapter 1 of the.2017 edition);

b) Added two levels of green benchmark product value and green product value in the benchmark value as well as low-carbon attribute requirements (see 4.2);

c) The test method for the retention rate of tensile strength of rock wool products perpendicular to the surface has been changed (see 4.2.1,

4.2.1 of the.2017 edition);

d) The formaldehyde emission requirements for rock wool products and glass wool products have been changed (see 4.2,

4.2 of the.2017 edition);

e) The bending breaking load requirement for glass wool board has been deleted (see 4.2.2 of the.2017 edition);

f) The test method and indicators for HBCD for molded polystyrene foam have been changed (see 4.2.3, .2017 version). 4.2.3);

g) The test method standard for the content of short-chain chlorinated paraffins in flexible

foam rubber and plastics has been changed (see 4.2.4, 4.2.4 of the 2017 edition);

h) The energy consumption index and test method standards for cellular glass products have been changed (see 4.2.5,

1 Scope

GB/T 35608-2024 is the Chinese green product assessment standard for thermal insulation materials. Insulation is the rare product whose environmental case is overwhelmingly positive, since the energy it saves over a building's life dwarfs the energy used to make it, but the differences between materials are real: the blowing agents of some foams have high global warming potential, some products carry flame retardants of concern, and the fire performance of an insulant has consequences that the last decade has made unmistakable. The standard sets the basic requirements a product must meet before assessment and then the evaluation indicators grouped as resource, energy, environmental and quality attributes, covering the thermal conductivity and the thickness needed for a given performance, the recycled content, the manufacturing energy and emissions, the blowing agent and its global warming potential, the restricted substances and the emissions in use, the durability and the fire behaviour, each with its limit and verification method. It takes effect on 1 January 2025.

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 213 Method for determination of calorific value of coal

GB/T 384 Determination of calorific value of petroleum products

GB/T 1549 Chemical analysis methods for fiberglass

GB/T 4132 Thermal insulation terminology

GB/T 5480 Test methods for mineral wool and its products

GB/T 5486 Test methods for inorganic rigid thermal insulation products

GB/T 6343 Determination of apparent density of cellular plastics and rubber

GB 8624-2012 Classification of combustion performance of building materials and products

GB/T 8812.1 Determination of flexural properties of rigid cellular plastics Part

GB/T 10294 Determination of steady-state thermal resistance and related properties of thermal insulation materials - Guarded hot plate method

GB/T 10295 Determination of steady-state thermal resistance and related properties of thermal insulation materials - Heat flow meter method

GB/T 10801.1 Molded polystyrene foam (EPS) for thermal insulation

GB/T 13350 Glass wool and its products for thermal insulation

GB/T 13480 Determination of compression properties of thermal insulation products for building

GB/T 17146 Test method for water vapor transmission performance of building materials and their products

GB/T 17794 Flexible foam rubber and plastic insulation products

GB/T 17795 Glass wool products for building insulation

GB/T 17911 Test methods for refractory fiber products

GB/T 18820 General rules for the compilation of industrial water quotas

GB/T 19001 Quality Management System Requirements

GB/T 19686 Rock wool insulation products for building

GB/T 20247 Acoustic reverberation room sound absorption measurement

GB/T 20285 Hazard classification of smoke toxicity of materials