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

GB 46520-2025

**Burning behavior safety technical specification of thermal
insulation materials and products for building**

建筑用绝热材料及制品燃烧性能安全技术规范

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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. 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 and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China. Combustion performance of building insulation materials and products Safety Technical Specifications

1 Scope

GB 46520-2025 is the Chinese national standard on burning behavior safety technical specification of thermal insulation materials and products for building, in the field of construction materials and building. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 5 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 August 2026. Classification: ICS 91.100.60, CCS Q 25. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document classifies building insulation materials and products, and specifies the requirements, test methods, and judgment criteria related to fire performance and safety. Then and the identifier. This document applies to thermal insulation materials and products used for building wall, roof and floor insulation.

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 8624 Classification of fire performance of building materials and products

GB/T 40248 Fire Safety Management of Densely Populated Places

GB 55037 General Code for Fire Protection of Buildings

3 Terms and Definitions

The terms and definitions defined in GB/T 4132, GB 8624 and GB/T 40248, as well as the following terms and definitions, apply to this document.

3.1 Thermal insulation materials and products used for building insulation.

3.2 homogeneous thermal insulation materials and products Thermal insulation materials and products composed of a single material, or having a uniform density and composition within them.

3.3 Non-homogeneous thermal insulation products made of two or more adjacent layers of different components. [Source: GB/T 4132-2023, 3.2.2, with modifications]

3.4 Thermal insulation materials and products whose main components are inorganic non-metallic materials.

3.5 Thermal insulation materials and products whose main components are organic polymer materials.