

ICS 91.120.10

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

**GB/T 47550-2026**

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**Thermal insulating products for building applications -  
Determination of the apparent density**

建筑用绝热制品 表观密度的测定

**(English Translation)**

**Issued on: April 30, 2026**

**Implemented on: November 1, 2026**

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**Issued by: State Administration for Market Regulation**

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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".

This document adopts ISO 29470:2020 "Determination of apparent density of thermal insulation products for building purposes".

### 1 Scope

This document specifies the equipment and procedures for determining apparent total density and apparent core density under standard conditions.

This document applies to full-size products and specimens. It also applies to individual layers of multi-layer products.

### 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 to this document.

**Note:** GB/T 46585-2025 Measurement of linear dimensions of test specimens for thermal insulation products for building (ISO 29768:2022, IDT)

### 3 Terms and Definitions

The following terms and definitions apply to this document.

### **3.1 Rho**

a The mass per unit volume of the product includes all skins formed during the production process, but excludes any finishes or coatings.

### **3.2 Apparent core density**

rho c The mass per unit volume of the product core after removing all skins, finishes, and coatings formed during the production process.

Density is determined by the ratio of specimen mass to volume.

## **5 Equipment**

### **5.1**

Balance. accurate to 0.5% of the specimen mass.

### **5.2**

Equipment. Capable of measuring linear dimensions (see 7.2).