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

**GB/T 33002-2016**

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**Thermal insulating products for building applications --  
Determination of deformation under specified compressive load  
and temperature conditions**

建筑用绝热制品 在规定压缩载荷和温度条件下变形的测定

**(English Translation)**

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## Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to ISO 29764.:2008 "Building insulation products in the specified compression load and temperature conditions change Shape of the determination. " and the normative reference in this standard international documents are consistent with the relationship between China's documents are as follows.

Accuracy (accuracy and precision) of measurement methods and results - Part 2. Determination of standard measurements - GB/T 6379.2-2004 the basic method of methodological repeatability and reproducibility (ISO 5725-2.:1994, IDT) this standard is proposed by the China Building Materials Federation.

This standard is nationalized by the National Standardization Technical Committee for Thermal Insulation (SAC/TC191).

The drafting unit. Nanjing Glass Fiber Research and Design Institute Co., Ltd., Shenzhen Jintai Detection Technology Co., Ltd., the national glass fiber Dimensional product quality supervision and inspection center.

## 1 Scope

This standard specifies the equipment and procedures required to determine the deformation under specified compressive loads, temperatures and time conditions. This standard applies Insulation products.

## 2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article. For undated references, the latest edition (including all modifications) applies to this document.

ISO 5725-2 Accuracy of measurement methods and results (accuracy and precision) - Part 2. Determination of standard measurement method Repeatability and the basic method of reproducibility [Accuracy (trueness and precision) of measurement methods and results - Part 2.

Basic method for the determination of repeatability and reproducibility of a standard measurement method] ISO 29768 Thermal insulation for building insulation products - Determination of linear dimensions (Thermal insulating products for building applications - Determination of linear dimensions of test specimens)

## 3 Terms and definitions

The following terms and definitions apply to this document.

Relative deformation the reduction in the thickness of the sample under the specified compressive load is expressed as a percentage of the original thickness of the sample and its measurement direction is the compressive load direction.

## 4 Principle

With a predetermined compressive load acting on the sample, the relative deformation of the specimen is measured in two steps, each step having a different temperature and time Conditions.

### 5.1 Measuring tool

The linear dimensions of the specimen can be measured according to ISO 29768, and the gauge for measuring the length and width is accurate to 0.5% of the measured value.

The measuring thickness of the measuring tool is accurate to 0.1mm.