

Translated English of Chinese Standard: GB/T17795-2008

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

GB/T 17795-2008

Replacing GB/T 17795-1999

**Glass Wool Thermal Insulating Products
for Building
建筑绝热用玻璃棉制品**

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Foreword

This Standard replaces GB/T 17795-1999 "Glass Wool Thermal Insulating Products for Building".

Compared with GB/T 17795-1999, main changes of this Standard are as follows:

- "Reflective membrane covering" and "vapor-resistant membrane covering" are added in the Terms and Definitions;
- Common thickness, coefficient of heat conductivity, and thermal resistance value indexes of felt in Table 1 are modified;
- Combustion performance grade of products shall be tested according to the classification and test methods specified in GB 8624-2006;
- Requirements for covering moisture permeability performance are deleted;
- Requirements for product formaldehyde emission are added;
- Requirements for metal corrosivity are added.

Please note that certain contents of this standard may involve patents. The issuance organizations of this standard shall not undertake the responsibility of identifying these patents.

Appendix A of this Standard is normative.

This standard was proposed by China Building Materials Federation.

This standard shall be under the jurisdiction of the National Technical Committee on Insulation Materials of Standardization Administration of China (SAC/TC 191).

Drafting organizations of this standard: Technical Supervision and Research Center of the Building Materials Industry, and China Building Material Test & Certification Group Co., Ltd.

Participating drafting organizations of this standard: Owens Corning (China) Investment Co., Ltd., Hebei Huamei Group, and Shanghai Plate Glass Factory.

Chief drafting staffs of this standard: Jin Fujin, Zhang Yuhui, Liu Haibo, Jiang Tao, Wang Zhi, Ding Guozheng, Gao Hongquan, Gan Xiangchen, and Chen Bin.

The previous edition replaced by this standard is:

- GB/T 17795-1999.

Glass Wool Thermal Insulating Products for Building

1 Scope

This standard specifies the terms and definitions, classification and marks, general requirements, requirements, test methods, inspection, marking, packing, transporting and storage of the glass wool thermal insulating products for building.

This standard is applicable to the glass wool thermal insulating products for building. It is not applicable to the glass wool products used for building equipment (such as pipeline equipment and heating equipment). It is also not applicable to the glass wool products used for industrial equipment and pipeline.

2 Normative References

The following standards contain provisions which, through reference in this standard, constitute provisions of this standard. For dated reference, the subsequent amendments (excluding corrigendum) or revisions of these publications do not apply. However, the parties who enter into agreement based on this standard are encouraged to investigate the possibility of applying the latest editions of the standards. For undated references, the latest editions of the normative document referred to apply.

GB/T 191 Packaging - Pictorial Marking for Handling of Goods

GB/T 4132 Definitions of Terms Relating to Thermal Insulating Materials

GB/T 5480-2008 Test methods for mineral wool and its products

GB 8624-2006 Classification for Burning Behavior of Building Materials and Products

GB/T 10294 Thermal Insulation - Determination of Steady-state Thermal Resistance and Related Properties - Guarded Hot Plate Apparatus

GB/T 10295 "Thermal Insulation - Determination of Steady-state Thermal Resistance and Related Properties - Heat Flow Meter Apparatus"

GB/T 11835-2007 Rock wool slag wool and its products for thermal insulation

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

GB/T 17393 Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel

GB 18580 Indoor Decorating and Refurbishing Materials-Limit of Formaldehyde Emission of Wood-based Panels and Finishing Products

3 Terms and Definitions

For the purpose of this standard, the terms and definitions specified in GB/T 4132 and the following ones apply.

3.1

Reflective membrane covering

The covering materials that have a function of reflecting external radiating heat, of which the emissivity is generally not greater than 0.03.

3.2

Vapor-resistant membrane covering

The covering materials that have vapor resistance functions, of which the moisture permeability coefficient is generally not greater than $5.7 \times 10^{-11} \text{kg}/(\text{Pa} \cdot \text{s} \cdot \text{m}^2)$.

4 Classification and Marks

4.1 Classification

4.1.1 Classify according to the packing

It may be classified into compression packing product and non-compression packing product, according to the different ways of packing.

4.1.2 Classify according to the shape of product

It may be classified into glass wool board and glass fiber felt according to the shape of product.

4.1.3 Classify according to the covering

It may be classified into three kinds of products as follows, according to the covering:

4.1.3.1 Product without covering

4.1.3.2 Product with reflective membrane covering

Such kind of covering is accompanied with the vapor-resistant performance, such as aluminum foil and aluminum foil Kraft.

4.1.3.3 Product with non-reflective membrane covering

The covering is classified into two kinds as follows:

- a) Vapor-resistant membrane covering, such as PVC and polypropylene;
- b) Non-vapor-resistant membrane covering, such as glass cloth.

4.2 Product marks

The product marks consist of 5 parts: product name, thermal resistance R (covering), density, dimension (length $\times$ width $\times$ thickness) and standard number.

4.3 Examples of marks

Example 1: The glass fiber felt, with aluminum foil covering, thermal resistance R is $1.5 (\text{m}^2 \cdot \text{K}/\text{W})$, density is $16 \text{ kg} / \text{m}^3$, and length $\times$ width $\times$ thickness is $12000\text{mm} \times 600\text{mm} \times 50\text{mm}$, shall be marked as:

Glass fiber felt R1.5 (aluminum foil) 16 K 12000 $\times$ 600 $\times$ 50 GB/T 17795-2008

according to the width ratio.

A.4 Test program

A.4.1 Use fixture to clip both ends of the test-piece. Hang the subassembly onto the test equipment vertically. Put the keg on the lower fixture. There is gap between the keg and floor.

A.4.2 Put sand into keg carefully until it reaches to the stated load (the load includes the mass of test-piece, lower fixture, keg and sand).

A.4.3 Maintain the loading on subassembly not less than 1min.

A.5 Test results

If the test-piece is able to withstand the relevant load and maintain for 1min, and without rupture, then it is deemed that the construction performance of the sample is qualified. Otherwise, it is unqualified.

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