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CCS Q25



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

GB/T 10299-2011

Replacing GB/T 10299-1988

Test method for hydrophobic nature of thermal insulation

绝热材料憎水性试验方法

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Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB /10299-1988 "hydrophobic insulation material test methods" T. This standard 10299-1988 major changes compared to GB/T as follows:

- Delete the contents of the range "polystyrene foam, rigid polyurethane foam"; and increased silicate, calcium silicate, which are Content requirements hydrophobic insulation products;
 - Modify the definition of hydrophobicity and hydrophobic rate (see
 - Increasing the thickness of more than 100mm of plates, carpets, carpet-like specimen sample preparation method (see 6);
 - Increasing the volume of sample preparation and methods of measurement of diameter greater than 150mm tubular article (see 6 and 7.2);
 - Modify the plates, carpets, carpet-like product thickness measuring method (see 7.2).
- The standard proposed by China Building Materials Federation. This standard by the National Standardization Technical Committee heat insulating material (SAC/TC191) centralized. This standard is drafted by: Nanjing Fiberglass Research and Design Institute. The main drafters of this standard. Chen Lihua, Cui Jun. This standard replaces the previous version of the release of case.
- GB/T 10299-1988. Test Method hydrophobic insulation material

1 Scope

GB/T 10299-2011 is the Chinese national standard on test method for hydrophobic nature of thermal insulation, in the field of construction materials and building. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 20 July 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China;

Standardization Administration of China, and has been in force since 1 March 2012.

Classification: ICS 91.100.60, CCS Q25. 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 standard specifies the definitions of terms, principles, instruments, samples, test procedures hydrophobic insulation test method, the results of calculations and tests report. This standard applies to mineral wool, perlite, calcium silicate insulation materials and products. Other requirements of the hydrophobic insulating materials You can use the reference standard.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 4132 insulation materials and related terms

GB/T 5486-2008 inorganic rigid thermal insulation - Test methods

3 Definition of Terms

GB/T 4132 defined by the following terms and definitions apply to this document.

3.1 Hydrophobic rate hydrophobic nature rate After a certain flow of water through the sample at a predetermined manner spray, not the volume occupied by the water volume fraction.

3.2 Hydrophobic hydrophobic nature Performance indicators reflect a water permeable material to hydrophobic rate is expressed. Principle

4 The sample was placed with a horizontal angle of 45 °, the center of the sample nozzle is located below a given location, water spray samples with a certain flow to the provisions of After time, by measuring the change in mass of the sample before and after spraying, the sample is not to calculate the volume fraction occupied by the volume of water.

5 Instruments

5.1 Hydrophobic tester Hydrophobic tester by the water spray apparatus, the sample holder, metal nozzle composition, structure shown in Figure 1.

5.1.1 Water apparatus The glass rotameter and regulator of water, separated with a hose connection. Glass rotameter flow range of (10 ~ 100) L/h, Precision 2.5.