

ICS 91.120.10

CCS Q 25



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

GB/T 5480.1-2004

**Test methods for mineral wool and its products
(English Translation)**

Issued on: December 29, 2017

Implemented on: November 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Test conditions
5 Sample selection
6 Verticality and flatness test method
7 Dimensions and bulk density test method
8 Fiber Average Diameter Test Method
9 Slag content test method
10 Acidity coefficient test method
11 Hygroscopicity test method
12 Oil content test method
13 Water absorption test method
14 Methods of testing organic content
15 Heat load shrinkage temperature test method

Foreword

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

This standard replaces GB/T 5480-2008 "Mineral wool and its products test methods." Compared with GB/T 5480-2008, the main technology the changes are as follows.

--- Square deviation from the percentage of units into mm/m (see 6.3.2, 2008 version 6.3.2);

--- Flatness is no longer used pad method instead of using the test platform method (see 6.2.2, 2008 version 6.2.2);

--- Modify the thickness of plate products measurement methods, replaced by a unified needle thickness gauge measurement, remove the thickness gauge (see 7.1.2, 2008 version 7.1.3);

--- Modify the product thickness measurement point position, an increase of the thickness of the measurement of the thickness of the jitter before processing requirements (see 7.2.2, 2008 Version 7.2.2);

- Modify the test method of the outer diameter of tubular products, instead of using the diameter of the ruler, which modified the inner diameter and bulk density of the calculation (See 7.3 and 7.5.2, 2008 edition 7.3 and 7.5.2);
- Increasing the shell eccentricity and its calculation method (see 7.3.5);
- Removed the average diameter of the fiber in the test method of air flow method (2008 version 8.2);
- Increase the dry ball separation method (see 9.4.4);
- Increased by ICP-AES method for the determination of acidity, and provides that this method is arbitration (see 10.4);
- Oil content test method is given detection limit of 0.01% (see 12.1), the sample was placed in a filter cartridge extraction (see 12.3.2, 2008 Version 12.3.3);
- Water absorption test specimen size was revised to 200mm x 200mm (see 13.4, the original standard 13.4), part of the immersion test sample immersion Water depth is changed to 10 mm (see 13.6.1.2, 2008 edition 13.7.1.2);
- Increasing the organic content test method (see Chapter 14);
- Increased heat shrinkage temperature test method (see Chapter 15).

This standard proposed by the China Building Materials Federation.

This standard by the National Standardization Technical Committee thermal insulation material (SAC/TC191) centralized.

1 Scope

This standard specifies the mineral wool and its products verticality, flatness, size, bulk density, average fiber diameter, slag content, acidity Number, hygroscopicity, oil content, water absorption, organic content, heat load shrinkage temperature and other related terms and definitions of test methods, test conditions, test Kind of selection, test methods and test records.

This standard applies to the determination of the performance of glass wool, rock wool, slag wool, aluminum silicate cotton and its products. Other insulation materials can also refer to Use this standard Hygroscopicity test is only applicable to non-coated products.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Fiberglass - Chemical analysis methods GB/T 4132 insulation materials and related terms

3 Terms and definitions

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

Substrate basicmaterial Mineral wool products do not include surfacing materials.

Acidity coefficientofacidity Mineral wool and its chemical composition of silicon dioxide, the sum of the mass fraction of aluminum oxide and calcium oxide, magnesium oxide and the mass fraction of ratio.

Cornerstone degree of deviation the vertical extent of two adjacent edges of the sample pressing surface.

Edge squareness

The vertical extent of the specimen end face and the pressed face.

Flatness facetrueeness Mineral wool board pressing surface warpage degree.

Mineral wool board (slab) A plate-shaped article of a certain rigidity made of mineral wool with a binder applied.