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

GB/T 3810.1-2016

Replacing GB/T 3810.1-2006

**Test methods of ceramic tiles -- Part 1: Sampling and basis for
acceptance**

陶瓷砖试验方法 第1部分：抽样和接收条件
(English Translation)

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Foreword

GB/T 3810 "ceramic tile test method" is divided into 16 parts.

- Part 1. Sampling and receiving conditions;
- Part 2. Inspection of dimensions and surface quality;
- Part 3. Determination of water absorption, apparent porosity, apparent relative density and bulk density;
- Part 4. Determination of fracture modulus and failure strength;
- Part 5. Determining the impact resistance of a brick with a recovery factor;
- Part 6. Determination of wear depth of unglazed tiles;
- Part 7. Determination of abrasion resistance of glazed tiles;
- Part 8. Determination of linear thermal expansion;
- Part 9. Determination of thermal shock resistance;
- Part 10. Determination of wet expansion;
- Part 11. Determination of glaze resistance of glazed tiles;
- Part 12. Determination of frost resistance;
- Part 13. Determination of resistance to chemical corrosion;
- Part 14. Determination of resistance to contamination;
- Part 15. Determination of lead and cadmium elution of glazed tiles;
- Part 16. Determination of small chromatic aberration.

This part is part 1 of GB/T 3810.

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

This part replaces GB/T 3810.1-2006 "Ceramic tile test method Part 1. Sampling and receiving conditions".

This part of the main changes compared with GB/T 3810.1-2006 as follows.

- modified scope (see Chapter 1, Chapter 1 of the 2006 edition);
- modified the reference and reference files for the normative reference (see Chapter 2, Chapter 2 of the 2006 edition);
- modified the terminology of the terms and definitions (see Chapter 3, Chapter 3 of the 2006 edition);
- a sampling scheme for the modification of the coefficient of friction (see Table 1, version 1.2 of Table 1);
- modified the small color of the sampling program (see Table 1, 2006 version of Table 1).

This section uses the re-drafting method to modify ISO 10545-1.:2014 "Ceramic Tile Part 1. Sampling and Receiving Conditions" (English Version).

The main differences between this section and ISO 10545-1.:2014 are as follows.

- Standard name changed to "Ceramic tile test method Part 1. Sampling and receiving conditions";
- Added normative reference documents (see Chapter 2);
- increase the gloss of the sampling and receiving conditions;
- increase the side length of not less than 600mm brick sample size requirements, requiring a sample size of at least 10, and the area is not less than 1m².

This section is proposed by the China Building Materials Federation.

This part of the National Building Sanitary Ceramics Standardization Technical Committee (SAC/TC249) centralized.

This part of the drafting unit. Xianyang Ceramic Research and Design Institute, Hangzhou Nobel Group Co., Ltd., Guangdong Mona Lisa New Materials Group Ltd., Guangdong Hongwei Ceramics Industry Co., Ltd., Guangdong Dongpeng Holding Co., Ltd., Ministry of Industry and Information Technology Building Sanitary Ceramics and Wei Bath product quality control technology evaluation laboratory.

1 Scope

This part of GB/T 3810 specifies the terms and definitions of ceramic tile sampling and receiving conditions, principles, composition of inspection lot, inspection Sampling, inspection, of the receiving rules and receiving reports.

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 Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 3810.2 Test methods for ceramic tiles - Part 2. Inspection of dimensions and surface quality (GB/T 3810.2-2016, ISO 10545-2.:1995, MOD) GB/T 3810.3 Test methods for ceramic tiles - Part 3. Determination of water absorption, apparent porosity, apparent relative density and bulk density (GB/T 3810.3-2016, ISO 10545-3.:1995, IDT) GB/T 3810.4 Test methods for ceramic tiles - Part 4. Determination of fracture modulus and failure strength (GB/T 3810.4-2016, ISO 10545-4.:2014, IDT) GB/T 3810.5 Test methods for ceramic tiles - Part 5. Determining the impact resistance of bricks with the restoring coefficient (GB/T 3810.5-2016, ISO 10545-5.:1996, IDT) GB/T 3810.6 Test methods for ceramic tiles - Part 6. Determination of abrasion resistance of glazed tiles (GB/T 3810.6-2016, ISO 10545-6.:2010, IDT) GB/T 3810.7 Test methods for ceramic tiles - Part 7. Determination of abrasion resistance of glazed tiles (GB/T 3810.7-2016, ISO 10545-7.:1996, IDT) GB/T 3810.8 Test methods for ceramic tiles - Part 8. Determination of linear thermal expansion (GB/T 3810.8-2016, ISO 10545-8.

2014, IDT)

GB/T 3810.9 Test methods for ceramic tiles - Part 9. Determination of thermal shock resistance (GB/T 3810.9-2016, ISO 10545-9.

2013, IDT)

GB/T 3810.10 Test methods for ceramic tiles - Part 10. Determination of wet expansion (GB/T 3810.10-2016, ISO 10545-10.:1995, IDT) GB/T 3810.11 Test methods for ceramic tiles - Part 11. Determination of glaze resistance of glazed tiles (GB/T 3810.11-2016, ISO 10545-11.:1994, IDT) GB/T 3810.12 Test methods for ceramic tiles - Part 12. Determination of frost resistance (GB/T 3810.12-2016, ISO 10545-12.

1995, IDT)

GB/T 3810.13 Test methods for ceramic tiles - Part 13. Determination of resistance to chemical corrosion (GB/T 3810.13-2016, ISO 10545-13.:1995, IDT) GB/T 3810.14 Test methods for ceramic tiles - Part 14. Determination of resistance to contamination (GB/T 3810.14-2016, ISO 10545-14.:1995, IDT) GB/T 3810.15 Test methods for ceramic tiles - Part 15. Determination of lead and cadmium elution of glazed tiles (GB/T 3810.15-2016, ISO 10545-15.:1995, IDT)