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**BUILDING MATERIALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JC/T 897-2014

Antiseptic function of antibacterial ceramic

抗菌陶瓷制品抗菌性能

(English Translation)

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Foreword

This Standard is drafted according to the rules given in the GB/T 1.1-2009.

This Standard replaces the JC/T 897-2002 Antiseptic function of antibacterial ceramic. Compared with the JC/T 897-2002, besides the editorial changes, the major technical changes are as follows.

- ADD the "Normative references" (SEE Chapter 2 of this edition);
- DELETE the "Product categories" (SEE Chapter 3 of 2002 edition);
- ADD the "Product marks" (SEE Chapter 4 of this edition);
- ADD the "General requirements" (SEE Chapter 5 of this edition);
- ADD the technical requirements and experimental methods for the permanence of antibacterial (SEE Section 7.3 of Chapter 6 of this edition);
- MODIFY the definitions of "antibacterial" and "antibacterial ceramic" (SEE Sections 3.1 and 3.3 of this edition);
- ADD the "Antibacterial test conditions" (SEE Section 7.1 of this edition);
- MODIFY the detailed provisions on the methods of antibacterial performance test (SEE Appendix A of this edition; Appendix A of 2002 edition).

Appendix A of this Standard modifies-adopts ISO 22196.2011 Measurement of antibacterial activity on plastics and other non-porous surfaces.

According to the conditions of microbiological experiments in our country, this Standard makes some modifications when adopting ISO 22196.2011. The relevant technical differences have already been compiled into the Appendix A. The existing major differences are as follows.

- This Standard deletes the "8.3 Calculation of the antibacterial activity" of ISO 22196.2011, and changes it into "A.4.2 Calculation of the antibacterial rate", which is to consider using the common methods for representing the antiseptic function of our country's existing products;
- This Standard deletes the Appendixes A and B of ISO 22196.2011;
- This Standard makes some editorial changes to ISO 22196.2011 according to the requirements of national standards.

This Standard was proposed by China Building Materials Association.

This Standard shall be under the jurisdiction of the Technical Committee for Standardization of Environment-friendly and Healthy Building Materials in the Building Materials Industry.

Drafting organizations of this Standard. China Building Materials Academy, Shenzhen Grandland Decoration Group Co., Ltd, Fujian Jomoo Group Co., Ltd, Guangdong Institute of Microbiology, Technical Institute of Physics and Chemistry, CAS, Microban (China) Co., Ltd, and Antibacterial Industry Branch of National Association of Health Industry and Enterprise Management.

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This Standard is issued for first-time.

Antiseptic function of antibacterial ceramic

1 Scope

This Standard specifies the terms and definitions, product marks, general requirements, technical requirements, test methods, and inspection rules of antibacterial ceramic.

2 Normative references

The following documents are essential to the application of this document. For dated references, only the versions with the dates indicated are applicable to this document. For undated references, only the latest versions (including all the amendments) are applicable to this document.

GB 4789.2 National food safety standards - Food microbiological examination. Aerobic plate count

3 Terms and definitions

The following terms and definitions apply to this document.

It refers to the generic terms of inhibiting and killing the growth and proliferation of bacteria, saccharomycetes, moulds, and other microorganisms.

It refers to the ceramic with antiseptic function on the surface.

4 Product marks

MARK the antibacterial ceramic according to the sequence of product name, standard number, symbols of the antiseptic function, antibacterial rate of the antiseptic function, and antibacterial rate of the permanence of antibacterial.

5 General requirements

The basic performance of the antibacterial ceramic shall conform to the provisions on the corresponding category of products specified in the national or industry standards.

6 Technical requirements

The antiseptic function and permanence of antibacterial of antibacterial ceramic shall conform to the provisions specified in Table 1.

7 Test methods

SIMULATE the cleaning ways of the products during use. USE sodium hypochlorite disinfectant to repeatedly scrub the surfaces of test samples. DETECT the antiseptic function of the surfaces of test samples after scrubbing.

8 Inspection rules

CONDUCT group-batching according to the group-batching methods specified in the relevant product standards.

USE one-time sampling scheme for the detection of antiseptic function and permanence of antibacterial. TAKE six samples at random from a batch of products submitted for inspection as test specimens.

Appendix A

(Informative)

Antiseptic function test method

USE the film adhering method to let the bacteria uniformly contact with the test specimens via the quantitative inoculation of bacteria on the test specimens to be detected. After a certain time, DETECT the viable count on the test

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