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

GB/T 27587-2011

**Test method for the resistance to microwave heating of
domestic ceramicware**

日用陶瓷耐微波加热测试方法
(English Translation)

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Table of Contents

Foreword
1 Scope
3 Equipment and materials
3.1 Microwave
3.2 Surface temperature tester
3.3 Containers that hold water
3.4 Stopwatch
3.5 Methylene blue solution
3.6 Determined by microwave power glass container
3.7 Observation box
4 Sample

Foreword

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

This standard EN15284:2007 "food contact materials and articles --- ceramics, glass, enamel or plastic cookware resistant to microwave heating Test Method "(Materials and articles in contact with food stuffs-Test method for the resistance to microwave heating of ceramic, glass, glass-ceramic or plastic cookware) to modify the use of the degree of consistency.

The main technical differences are as follows.

--- EN15284:2007 standard name contains a ceramic, glass, enamel or plastic cookware, this standard contains only ceramic;

--- EN15284:2007 Scope includes ceramics, glass, enamel or plastic cookware resistant microwave heating test method, this standard Quasi-resistant ceramic microwave heating contains test methods only;

--- Increasing the specific color standard method to judge the observer and the observed locations shall comply with EN12875-2:2001 in Chapter 4 the 5.2 requires direct inclusion into the standards.

This standard EN15284:2007 compared to some adjustments in the structure, listed in Appendix A of this standard and EN15284:2007 the reg number control list.

This standard EN15284:2007 clause relates to the technical differences compared to the

presence has passed an empty spot on the outside edge of the vertical page Straight single line was marked, Appendix B gives a list of corresponding technical differences and their causes.

The standard proposed by China National Light Industry Council.

This standard by the national daily-use ceramics Standardization Technical Committee (SAC/TC405) centralized.

This standard was drafted. National Ceramic Products Quality Supervision and Inspection Center (Jiangxi), Yixing People's Republic of China Entry-Exit Inspection and Quarantine Bureau, Guangxi Sanhuan Enterprise Group Co., Ltd., Guangdong Great Wall Group Co., Ltd., Shandong Zibo Huaguang Ceramics Co., Ltd., Chongqing Jin Hui Ceramics Co., Ltd.

1 Scope

This standard specifies the test method for resistance to microwave heating of ceramic ware.

This standard applies to pottery, stoneware, porcelain resistance measurement microwave heating.

Principle 2

Measuring household ceramic products in the presence of moisture conditions in the microwave heating process is generating electric arc damage, and after microwave heating and the maximum surface temperature.

3.1 Microwave

Installed inside the turntable, the output power of at least 600W (5.1 determined).

3.2 Surface temperature tester

Having a small heat capacity, electronic thermometers metal sensor accuracy $\pm 1\text{ }^{\circ}\text{C}$.

3.3 Containers that hold water

Water container 2, capacity 125mL or more, to be on the inside corner of the microwave oven.

3.4 Stopwatch

Accuracy of $\pm 1\text{s}$.

3.5 Methylene blue solution

Concentration. 1%.

3.6 Determined by microwave power glass container

A cylindrical container made of borosilicate glass. The maximum thickness of the container is about 3mm, outer diameter of about 190mm, a height of about 90mm.

3.7 Observation box

Box with vertical fluorescent color temperature 3500K ~ 4500K placed above the sample, illumination about 1000lx ~ 1500lx, inside Natural gray brush observed should avoid direct exposure to light.

4 Sample

Each type of product at least take the same test sample three (on behalf of a variety of shapes and functions to be tested cookware or utensils).