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

GB 3295-1982

Replacing GB/T 3295-1996

**Test method for specular gloss of ceramic ware
(English Translation)**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 3295-1996 "Test method for 45° mirror gloss of ceramic products". Compared with GB/T 3295-1996, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Changed terms and definitions (see Chapter 3, Chapter 2 of the 1996 edition);
- Changed the instrument device and clarified the technical parameters of the gloss meter and the gloss plate (see Chapter 5, 1996 edition Chapter 4);
- Changed the sample requirements and deleted the sample quantity requirements (see Chapter 6, Chapter 5 of the 1996 edition);
- Changed the test method description (see Chapter 7, Chapter 6 of the 1996 edition);
- Changed the calculation and result presentation (see Chapter 8, Chapter 7 of the 1996 edition);
- Changed the test report (see Chapter 9, Chapter 8 of the 1996 edition).

1 Scope

This document describes the test method for the specular gloss of ceramic products.

This document is applicable to the mirror gloss test of ceramic products, and is also suitable for evaluating the corrosion resistance, wear resistance, and other the impact of external factors on the surface of the product.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 5000 Terminology of daily-use ceramics JJG696 Verification Procedure for Mirror Gloss Meters and Gloss Plates

3 Terms and Definitions

The terms and definitions defined in GB/T 5000 and JJG 696 and the following apply to this document.

Specular gloss

Glossiness

GS(theta)

A relative measure of specular gloss.

Note: The reference standard is black glass with a refractive index $n_D = 1.567$. Assuming that its surface is ideally polished, the surface will reflect the natural light beam.

And define the specular glossiness value at this time as 100.0 gloss units.

Glossiness plate

Ceramic plate or polished black glass plate with smooth, uniform surface and good wear resistance.

Note: Used in conjunction with a gloss meter.

4 Principles

Under the specified incident angle and beam conditions, the reflected light intensity of the ceramic surface in the mirror direction is compared with the glossiness plate in the mirror direction.

The gloss value of the sample is measured by the intensity of reflected light in the direction.

5.1 Glossmeter

The incident angle is 45° or 60° . The metrological performance of the instrument shall not be lower than Level 2 in JJG696. The optical principle and metrological performance

requirements of the instrument are shown in Appendix A.