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

GB/T 3295-2025

Replacing GB/T 3295-1996

Test method for specular gloss of ceramic ware

陶瓷制品镜向光泽度试验方法

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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).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Light Industry Federation.

This document is under the jurisdiction of the National Technical Committee for

Standardization of Daily-Use Ceramics (SAC/TC405).

This document was drafted by: Lishui Quality Inspection and Testing Institute, Jiangxi Ceramic Testing Center, Nanping Product Quality Inspection Institute, Quanzhou Keshijia Optoelectronic Instrument Co., Ltd., China Light Industry Ceramics Research Institute.

The main drafters of this document are: Zhang Weibo, Xu Dayu, Yang Weixi, Wang Difan, and Zou Wenjie.

The previous versions of this document and the documents it replaces are as follows.

- First issued in 1982 as GB 3295-1982, first revised in 1996 as GB/T 3295-1996;
- This is the second revision.

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

GB/T 5000

JJG696

3 Terms and Definitions

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

3.1 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.

3.2 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.