

ICS 87.040



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

GB/T 9754-2025

**Paints and varnishes - Determination of gloss value at
20-degree, 60-degree and 85-degree
(English Translation)**

Issued on: June 30, 2025

Implemented on: January 1, 2026

Issued by: State Administration for Market Regulation

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Foreword

This Document was drafted as per the rules specified in GB/T 1.1-2020 Directives for Standardization - Part 1.Rules for the Structure and Drafting of Standardizing Documents.

This Document replaced GB/T 9754-2007 Paints and Varnishes - Determination of Specular

Gloss of Non-Metallic Paint Films at 20° 60°and 85°. Compared with GB/T 9754-2007, the major technical changes of this Document are as follows besides structural adjustments and

editorial modifications.

- a) Change the "Scope" (see Clause 1 of this Edition; Clause 1 of the 2007 Edition);
- b) Change the "Terms and Definitions" (see Clause 3 of this Edition; Clause 3 of the 2007 Edition);
- c) Delete "Sampling", "Sampling of Painted Substrates", and "Preparation of Test Panels" (see Clauses 6, 7, and 8 of the 2007 Edition);
- d) Add "Principles" and "Basic Principles of Gloss Measurement" (see Clauses 4 and 5 of this Edition);
- e) Change the "Instruments and Calibration Equipment" (see Clause 6 of this Edition; Clause 5 of the 2007 Edition);
- f) Add "Test Panels" (see Clause 7 of this Edition);

- g) Change the "Calibration and Adjustment of Gloss Meters" (see Clause 8 of this Edition; Clause 9 of the 2007 Edition);
- h) Change the "Operating Procedures" (see Clause 9 of this Edition; Clause 10 of the 2007 Edition);
- i) Change the "Precision" (see Clause 10 of this Edition; Clause 11 of the 2007 Edition);
- j) Change the "Test Report" (see Clause 11 of this Edition; Clause 12 of the 2007 Edition);
- k) Add normative annexes on "Possible Sources of Error" and "Calibration Standards" (see Annexes A and B of this Edition).

This Document equivalently adopted ISO 2813:2014 Paints and Varnishes - Determination of

Gloss Value at 20°, 60° and 85°.

Please note some contents of this Document may involve patents. The issuing agency of this

Document shall not assume the responsibility to identify these patents.

This Document was proposed by China Petroleum and Chemical Industry Federation.

Paints and Varnishes - Determination of Gloss Value at 20°,

60° and 85°

1 Scope

This Document specifies a method for determining the gloss of coatings using the three geometries of 20°, 60° or 85°.

The Document is suitable for the gloss measurement of non-textured coatings on plane, opaque

substrates.

NOTE: On test specimens different from these mentioned above, comparative gloss measurements are

possible. However, it is not ensured that the obtained gloss values correspond to the visual gloss

perception (see Annex A).

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in this Document. For the dated documents, only the versions with the dates

indicated are applicable to this Document; for the undated documents, only the latest version

(including all the amendments) is applicable to this Document.

ISO 1514 Paint and varnishes - Standard panels for testing

NOTE: GB/T 9271-2008 Paints and varnishes standard panels for testing (ISO 1514.2004, MOD)

ISO 2808 Paints and varnishes - Determination of film thickness

NOTE: GB/T 13452.2-2008 Paints and varnishes - Determination of film thickness (ISO 2808.2007, IDT)

ISO 4618 Paints and varnishes - Terms and definitions

NOTE: GB/T 5206-2015 Paints and varnishes - Terms and definitions (ISO 4618.2014, IDT)

3 Terms and Definitions

For the purposes of this Document, the terms and definitions given in ISO 4618 and the following apply.

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