

Paints and varnishes - Determination of gloss value at 20 degrees, 60 degrees and 85 degrees (ISO 2813:2014)

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NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 15.10.2014.	Date of Availability of the European standard is 15.10.2014.
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ICS 87.040

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English Version

Paints and varnishes - Determination of gloss value at 20 degrees, 60 degrees and 85 degrees (ISO 2813:2014)

Peintures et vernis - Détermination de l'indice de brillance à 20 degrés, 60 degrés et 85 degrés (ISO 2813:2014)

Beschichtungsstoffe - Bestimmung des Glanzwertes unter 20°, 60° und 85° (ISO 2813:2014)

This European Standard was approved by CEN on 24 August 2014.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 2813:2014) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 139 "Paints and varnishes" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2015, and conflicting national standards shall be withdrawn at the latest by April 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 2813:2014 has been approved by CEN as EN ISO 2813:2014 without any modification.

Contents

	Page
Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Principle.....	2
5 Basic principles of the gloss measurement.....	2
6 Apparatus and calibration equipment.....	4
6.1 Glossmeter.....	4
6.2 Measurement standards (certified reference material, working measurement standards).....	7
7 Test panels.....	8
7.1 Substrate.....	8
7.2 Preparation and coating.....	8
7.3 Drying and conditioning.....	8
7.4 Thickness of coating.....	8
8 Calibration and adjustment of the glossmeter.....	8
8.1 Preparation of the apparatus.....	8
8.2 Zero point check.....	8
8.3 Calibration and adjustment.....	9
9 Procedure.....	9
9.1 Selection of geometry.....	9
9.2 Gloss measurement.....	9
10 Precision.....	10
10.1 General.....	10
10.2 Repeatability limit.....	10
10.3 Reproducibility limit.....	10
11 Test report.....	10
Annex A (normative) Possible sources of error.....	12
Annex B (normative) Calibration standards.....	15
Annex C (informative) Gloss calculation of primary reference standards.....	17
Annex D (informative) Details on precision.....	21
Bibliography.....	23

Paints and varnishes — Determination of gloss value at 20°, 60° and 85°

1 Scope

This International Standard specifies a method for determining the gloss of coatings using the three geometries of 20°, 60° or 85°. The method 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 following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1514, *Paints and varnishes — Standard panels for testing*

ISO 2808, *Paints and varnishes — Determination of film thickness*

ISO 4618:2014, *Paints and varnishes — Terms and definitions*

3 Terms and definitions

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

3.1

gloss

optical property of a surface, characterized by its ability to reflect light specularly

Note 1 to entry: Examples of degrees of gloss are high gloss, gloss, silk gloss, semigloss, satin, matt, and dead matt.

[SOURCE: ISO 4618:2014, 2.132]

3.2

geometry

identification of a method of gloss measurement using a specified angle with assigned apertures

3.3

gloss value

ratio multiplied by 100 of the luminous flux reflected from a specimen to that reflected by a glass surface with a refractive index of 1,567 at a wavelength of 587,6 nm in specular direction for a specified reflection angle and specified aperture angles of light source and receptor

Note 1 to entry: The gloss value is indicated in gloss units (GU). It is not permitted to interpret and express gloss values as “% reflection”.

Note 2 to entry: Gloss values measured on coatings are expressed rounded to the nearest integer (without decimals).

Note 3 to entry: To define the gloss scale, polished black glass with a refractive index of 1,567 at a wavelength of 587,6 nm is assigned to the value of 100 for 20°, 60° and 85° geometries.