



**SLOVENSKI STANDARD**  
**SIST EN ISO 2813:1999**

**01-september-1999**

---

**Barve in laki - Določevanje sijaja neefektnih premaznih sredstev pod koti 20o, 60o in 85o (ISO 2813:1994, vključno s tehničnim popravkom 1:1997)**

Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85° (ISO 2813:1994, including Technical Corrigendum 1:1997)

Beschichtungsstoffe - Bestimmung des Reflektometerwertes von Beschichtungen (außer Metallic-Beschichtungen) unter 20°, 60° und 85° (ISO 2813:1994, einschließlich Technische Korrektur 1:1997)

(standards.iteh.ai)

Peintures et vernis - Détermination de la réflexion spéculaire de feuil de peinture non métallisée a 20°, 60° et 85° (ISO 2813:1994, Rectificatif Technique 1:1997, inclus)

**Ta slovenski standard je istoveten z: EN ISO 2813:1999**

---

**ICS:**

87.040 Barve in laki Paints and varnishes

**SIST EN ISO 2813:1999 en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 2813:1999

<https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-8c26579b3078/sist-en-iso-2813-1999>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 2813

April 1999

ICS 87.040

English version

**Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85° (ISO 2813:1994, including Technical Corrigendum 1:1997)**

Peintures et vernis - Détermination de la réflexion spéculaire de feuillets de peinture non métallisée à 20°, 60° et 85° (ISO 2813:1994, Rectificatif Technique 1:1997, inclus)

Beschichtungsstoffe - Bestimmung des Reflektometerwertes von Beschichtungen (außer Metallic-Beschichtungen) unter 20°, 60° und 85° (ISO 2813:1994, einschließlich Technische Korrektur 1:1997)

This European Standard was approved by CEN on 1 April 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2  
EN ISO 2813:1999

## Foreword

The text of the International Standard from Technical Committee ISO/TC 35 "Paints and varnishes" of the International Organization for Standardization (ISO) has been taken over as an European Standard by 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 October 1999, and conflicting national standards shall be withdrawn at the latest by October 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## Endorsement notice

The text of the International Standard ISO 2813:1994, including Technical Corrigendum 1:1997, has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

[SIST EN ISO 2813:1999](https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-8c26579b3078/sist-en-iso-2813-1999)

<https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-8c26579b3078/sist-en-iso-2813-1999>

**Annex ZA (normative)****Normative references to international publications  
with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1512	1991	Paints and varnishes - Sampling of products in liquid or paste form	EN 21512	1994
ISO 1513	1992	Paints and varnishes - Examination and preparation of samples for testing	EN ISO 1513	1994

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN ISO 2813:1999](https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-8c26579b3078/sist-en-iso-2813-1999)

<https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-8c26579b3078/sist-en-iso-2813-1999>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 2813:1999

<https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-8c26579b3078/sist-en-iso-2813-1999>

INTERNATIONAL  
STANDARD

**ISO**  
**2813**

Third edition  
1994-08-01

---

---

**Paints and varnishes — Determination of  
specular gloss of non-metallic paint films  
at 20°, 60° and 85°**

**iTeh STANDARD PREVIEW**

*Peintures et vernis — Détermination de la réflexion spéculaire de feuil-  
de peinture non métallisée à 20°, 60° et 85°*

[SIST EN ISO 2813:1999](https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-8c26579b3078/sist-en-iso-2813-1999)

[https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-  
8c26579b3078/sist-en-iso-2813-1999](https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-8c26579b3078/sist-en-iso-2813-1999)



Reference number  
ISO 2813:1994(E)

**ISO 2813:1994(E)****Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 2813 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

[SIST EN ISO 2813:1999](https://standards.iteh.ai/catalog/standards/sist/d10ce87f-afd3-40d8-ade8-100237901978/iso-2813-1999)

This third edition cancels and replaces the second edition (ISO 2813:1978), the whole text of which has been technically revised.

Annex A forms an integral part of this International Standard. Annex B is for information only.

© ISO 1994

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization  
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland



# Paints and varnishes — Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°

## 1 Scope

This International Standard is one of a series of standards dealing with the sampling and testing of paints, varnishes and related products.

It specifies a test method for determining the specular gloss of paint films using a reflectometer geometry of 20°, 60° or 85°. The method is not suitable for the measurement of the gloss of metallic paints.

- a) The 60° geometry is applicable to all paint films, but for very high gloss and near-matt films 20° or 85° may be more suitable.
- b) The 20° geometry, which uses a smaller receptor aperture, is intended to give improved differentiation between high-gloss paint films (i.e. films with a 60° specular gloss higher than about 70 units).
- c) The 85° geometry is intended to give improved differentiation between low-gloss paint films (i.e. films with a 60° specular gloss lower than about 10 units).

### NOTES

1 The same geometry should, of course, be retained for a series of measurements even if this means disregarding the suggested limits.

2 In some cases, the determination of specular gloss may not correspond to a visual assessment.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions

of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1512:1991, *Paints and varnishes — Sampling of products in liquid or paste form.*

ISO 1513:1992, *Paints and varnishes — Examination and preparation of samples for testing.*

ISO 2808:1991, *Paints and varnishes — Determination of film thickness.*

## 3 Definition

For the purposes of this International Standard, the following definition applies.

**3.1 specular gloss:** The ratio of the luminous flux reflected from an object in the specular direction for a specified source and receptor angle to the luminous flux reflected from glass with a refractive index of 1,567 in the specular direction.

NOTE 3 To define the specular-gloss scale, polished black glass with a refractive index of 1,567 is assigned the value of 100 for geometries of 20°, 60° and 85°.

## 4 Required supplementary information

For any particular application, the test method specified in this International Standard needs to be completed by supplementary information. The items of supplementary information are given in annex A.