

SLOVENSKI STANDARD

SIST EN ISO 7668:2021

01-november-2021

Nadomešča:

SIST EN ISO 7668:2018

Anodizacija aluminija in aluminijevih zlitin - Merjenje odbojnosti in sijaja anodizirane plasti pod koti 20°, 45°, 60° ali 85° (ISO 7668:2021)

Anodizing of aluminium and its alloys - Measurement of specular reflectance and specular gloss of anodic oxidation coatings at angles of 20°, 45°, 60° or 85° (ISO 7668:2021)

Anodisieren von Aluminium und Aluminiumlegierungen - Messung des gerichteten Reflexionsgrades und des Spiegelglanzes von anodisch erzeugten Oxidschichten bei Winkeln von 20°, 45°, 60° oder 85° (ISO 7668:2021)

[SIST EN ISO 7668:2021](https://standards.itih.ai/catalog/standards/sist/190a62fa-23e7-44bc-bc26-c2291652295a-cp-iso-7668-2021)

Anodisation de l'aluminium et de ses alliages - Mesurage des caractéristiques de réflectivité et de brillant spéculaires des couches anodiques à angle fixe de 20°, 45°, 60° ou 85° (ISO 7668:2021)

Ta slovenski standard je istoveten z: EN ISO 7668:2021

ICS:

25.220.20	Površinska obdelava	Surface treatment
77.120.10	Aluminij in aluminijeve zlitine	Aluminium and aluminium alloys

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EUROPEAN STANDARD

EN ISO 7668

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2021

ICS 25.220.20

Supersedes EN ISO 7668:2018

English Version

Anodizing of aluminium and its alloys - Measurement of specular reflectance and specular gloss of anodic oxidation coatings at angles of 20°, 45°, 60° or 85° (ISO 7668:2021)

Anodisation de l'aluminium et de ses alliages -
Mesurage des caractéristiques de réflectivité et de
brillant spéculaires des couches anodiques à angle fixe
de 20°, 45°, 60° ou 85° (ISO 7668:2021)

Anodisieren von Aluminium und
Aluminiumlegierungen - Messung des gerichteten
Reflexionsgrades und des Spiegelglanzes von anodisch
erzeugten Oxidschichten bei Winkeln von 20°, 45°, 60°
oder 85° (ISO 7668:2021)

This European Standard was approved by CEN on 17 August 2021.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 7668:2021) has been prepared by Technical Committee ISO/TC 79 "Light metals and their alloys" in collaboration with Technical Committee CEN/TC 132 "Aluminium and aluminium alloys" the secretariat of which is held by AFNOR.

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 March 2022, and conflicting national standards shall be withdrawn at the latest by March 2022.

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

This document supersedes EN ISO 7668:2018.

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The text of ISO 7668:2021 has been approved by CEN as EN ISO 7668:2021 without any modification.

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INTERNATIONAL
STANDARD

ISO
7668

Fourth edition
2021-08

**Anodizing of aluminium and its
alloys — Measurement of specular
reflectance and specular gloss of
anodic oxidation coatings at angles of
20°, 45°, 60° or 85°**

*Anodisation de l'aluminium et de ses alliages — Mesurage des
caractéristiques de réflectivité et de brillant spéculaires des couches
anodiques à angle fixe de 20°, 45°, 60° ou 85°*

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 79, *Light metals and their alloys*, Subcommittee SC 2, *Organic and anodic oxidation coatings on aluminium*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 132, *Aluminium and aluminium alloys*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 7668:2018), which has been technically revised. The main changes compared with the previous edition are as follows:

- [Tables 4](#) and [5](#) have been revised.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Specular reflectance and specular gloss are not unique physical properties of a surface. They vary with the angle of measurement, and with the aperture dimensions that define the incident and the reflected beams, such that measurements of these properties are not independent of the apparatus being used.

The specular reflectance of most surfaces increases with the angle of measurement and accounts for the use of reflectometers with various angles as, for example, for painted surfaces. The specular reflectance characteristics of anodized aluminium, however, do not always behave in the normal manner and, because of its property of double reflection, reflected light comes partly from the film surface and partly from the underlying metal. It is advisable to measure the specular reflectance characteristics at 20°, 45°, 60° and 85° to obtain a complete understanding of the specular reflectance properties of the anodized surface, and careful thought should be given to which method or methods are most relevant in any particular situation. The specular reflectance of bright-anodized aluminium with a mirror finish is best measured using 45° or 20° geometry.

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