SLOVENSKI STANDARD
SIST EN ISO 7668:2018

01-maj-2018

Nadomešča:
SIST EN ISO 7668:2012

Anodizacija aluminija in aluminijevih zlitin - Merjenje odbojnosti in sijaja anodizirane plasti pod koti 20°, 45°, 60° ali 85° (ISO 7668:2018)

Anodizing of aluminium and its alloys - Measurement of specular reflectance and specular gloss of anodic oxidation coatings at angles of 20 degrees, 45 degrees, 60 degrees or 85 degrees (ISO 7668:2018)

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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 7668:2018)

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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 degrés, 45 degrés, 60 degrés ou 85 degrés (ISO 7668:2018)

Ta slovenski standard je istoveten z: **EN ISO 7668:2018**

ICS:

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

SIST EN ISO 7668:2018 **en**

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 7668

March 2018

ICS 25.220.20

Supersedes EN ISO 7668:2010

English Version

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This European Standard was approved by CEN on 14 March 2018.

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European foreword

This document (EN ISO 7668:2018) 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of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

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INTERNATIONAL STANDARD

ISO 7668

Third edition
2018-02

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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CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
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Foreword

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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*.

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This third edition cancels and replaces the second edition (ISO 7668:2010), which has been technically revised. The main technical changes are as follows:

— the normative references have been added;

— the definition of specular gloss has been revised;

— the references to CIE spectral luminous efficiency and CIE standard illuminants C and D65 have been added.

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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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