
**Steklasti in porcelanski emajli - Ugotavljanje odpornosti proti površinski obrabi -
2. del: Izguba mase ob površinski obrabi (ISO 6370-2:2020)**

Vitreous and porcelain enamels - Determination of the resistance to abrasion - Part 2:
Loss in mass after sub-surface abrasion (ISO 6370-2:2020)

Emails und Emaillierungen - Bestimmung des Widerstandes gegen Verschleiß - Teil 2:
Massenverlust nach Tiefenverschleiß (ISO 6370-2:2021)

Émaux vitrifiés - Détermination de la résistance à l'abrasion - Partie 2: Perte de masse
après abrasion de la couche superficielle (ISO 6370-2:2020)

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EUROPEAN STANDARD
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English Version

Vitreous and porcelain enamels - Determination of the resistance to abrasion - Part 2: Loss in mass after sub-surface abrasion (ISO 6370-2:2020)

Émaux vitrifiés - Détermination de la résistance à l'abrasion - Partie 2: Perte de masse après abrasion de la couche superficielle (ISO 6370-2:2020)

Emails und Emailierungen - Bestimmung des Widerstandes gegen Verschleiß - Teil 2: Massenverlust nach Tiefenverschleiß (ISO 6370-2:2021)

This European Standard was approved by CEN on 20 September 2021.

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 CEN-CENELEC Management Centre or to any CEN member.

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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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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of ISO 6370-2:2020 has been prepared by Technical Committee ISO/TC 107 "Metallic and other inorganic coatings" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 6370-2:2021 by Technical Committee CEN/TC 262 "Metallic and other inorganic coatings, including for corrosion protection and corrosion testing of metals and alloys" the secretariat of which is held by BSI.

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 2022, and conflicting national standards shall be withdrawn at the latest by April 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

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 6370-2:2020 has been approved by CEN as EN ISO 6370-2:2021 without any modification.

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INTERNATIONAL STANDARD

ISO
6370-2

Third edition
2020-02

Vitreous and porcelain enamels — Determination of the resistance to abrasion —

Part 2: Loss in mass after sub-surface abrasion

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*Émaux vitrifiés — Détermination de la résistance à l'abrasion —
Partie 2: Perte de masse après abrasion de la couche superficielle*

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ISO 6370-2:2020(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.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 107, *Metallic and other inorganic coatings*.

This third edition cancels and replaces the second edition (ISO 6370-2:2011), which has been technically revised. The main changes compared with the previous edition are as follows:

- terms and definitions have been added;
- sanidine (potassium feldspar) has been included as an additional abrasive option for testing;
- the requirements for steel balls have been amended.

A list of all parts in the ISO 6370 series can be found on the ISO website.

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

Extensive tests have shown that, with the comparative method described in this document, the uncertainty of measurement of test results is $\pm 5\%$. Furthermore, absolute quantities for the amount of wear give little information, because abrasives used in practice differ considerably in their effect on enamelled surfaces. Each abrasion test with a standardized method can only be carried out with the aim of providing a general classification of various vitreous and porcelain enamels in relation to each other. Absolute quantities for the amount of wear are therefore not required.

Numerous tests have shown that the three required test periods of 30 min were sufficient to obtain comparable results. If the vitreous and porcelain enamel coat to be tested is thicker than 0,2 mm, it is not necessary to determine the loss in mass after each 30 min test period, because the abrasion under the conditions described in this document is directly proportional to the test duration.

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