Ceramic tiles - Part 15: Determination of lead and cadmium given off by tiles (ISO 10545-15:2021)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 10545-15:2021 sisaldab Euroopa standardi EN ISO 10545-15:2021 ingliskeelset teksti.

This Estonian standard EVS-EN ISO 10545-15:2021 consists of the English text of the European standard EN ISO 10545-15:2021.

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 and Accreditation.

Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 30.06.2021.

Date of Availability of the European standard is 30.06.2021.

Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.

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EUROPEAN STANDARD

EN ISO 10545-15

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Ceramic tiles - Part 15: Determination of lead and cadmium given off by tiles (ISO 10545-15:2021)

Carreaux et dalles céramiques - Partie 15 : Détermination de la teneur en plomb et en cadmium relargués par les carreaux (ISO 10545-15:2021) Keramische Fliesen und Platten - Teil 15: Bestimmung der Abgabe von Blei und Cadmium bei glasierten Fliesen und Platten (ISO 10545-15:2021)

This European Standard was approved by CEN on 12 June 2021.

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

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European foreword

This document (EN ISO 10545-15:2021) has been prepared by Technical Committee ISO/TC 189 "Ceramic tile" in collaboration with Technical Committee CEN/TC 67 "Ceramic tiles" the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by December 2021, and conflicting national standards shall be withdrawn at the latest by December 2021.

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 10545-15:1997.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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Endorsement notice

The text of ISO 10545-15:2021 has been approved by CEN as EN ISO 10545-15:2021 without any modification.

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Foreword

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This document was prepared by Technical Committee ISO/TC 189, *Ceramic tile,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 67, *Ceramic tiles,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 10545-15:1995), which has been technically revised.

The main changes compared to the previous edition are as follows:

- addition of <u>Clause 3</u>, subsequent clauses have been renumbered;
- modifications to Clause 7;
- correction of typographical errors from the previous edition;
- application of this test method to all tile surfaces.

A list of all parts in the ISO 10545 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.

Ceramic tiles —

Part 15:

Determination of lead and cadmium given off by tiles

1 Scope

This document specifies a method for the determination of lead and cadmium given off by the ceramic tiles surface.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3696:1987, Water for analytical laboratory use — Specification and test methods

ISO 6353-2:1983, Reagents for chemical analysis — Part 2: Specifications — First series

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

4 Principle

Exposure of the surface of a ceramic tile to an acetic acid solution. Determination of the amount of lead and cadmium released into the solution by an appropriate method.

5 Reagents

5.1 General

During the analysis, unless otherwise indicated, use only the reagents specified in ISO 6353-2 if indicated, if not, use reagents of recognized analytical grade, and grade 2 complying with ISO 3696:1987.

5.2 Test solution

Prepare acetic acid solution, 4% (V/V) as follows: add 40 ml of glacial acetic acid (R 1 of ISO 6353-2:1983) to 960 ml of distilled water of grade 2.