

Footwear - Test methods for uppers, lining and insoles -  
Colour migration (ISO 17701:2016)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

|   |  |
|---|--|
| See Eesti standard EVS-EN ISO 17701:2016 sisaldab Euroopa standardi EN ISO 17701:2016 ingliskeelset teksti.         | This Estonian standard EVS-EN ISO 17701:2016 consists of the English text of the European standard EN ISO 17701:2016.              |
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ICS 61.060

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EUROPEAN STANDARD

**EN ISO 17701**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 13517:2001

English Version

## Footwear - Test methods for uppers, lining and insoles - Colour migration (ISO 17701:2016)

Chaussures - Méthodes d'essai des tiges, de la doublure  
et des premières de propreté - Migration de la couleur  
(ISO 17701:2016)

Schuhe - Prüfverfahren für Obermaterialien, Futter und  
Decksohlen - Farbmigration (ISO 17701:2016)

This European Standard was approved by CEN on 15 April 2016.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## European foreword

This document (EN ISO 17701:2016) has been prepared by Technical Committee ISO/TC 216 “Footwear” in collaboration with Technical Committee CEN/TC 309 “Footwear” the secretariat of which is held by AENOR.

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of an identical text or by endorsement, at the latest by November 2016, and conflicting national standards shall be withdrawn at the latest by November 2016.

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

This document supersedes EN 13517:2001.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### Endorsement notice

The text of ISO 17701:2016 has been approved by CEN as EN ISO 17701:2016 without any modification.

# Contents

|  | Page     |
|--|----------|
| Foreword.....  | iv       |
| <b>1 Scope.....</b>                                      | <b>1</b> |
| <b>2 Normative references.....</b>                       | <b>1</b> |
| <b>3 Terms and definitions.....</b>                      | <b>1</b> |
| <b>4 Apparatus and material.....</b>                     | <b>1</b> |
| <b>5 Sampling and conditioning.....</b>                  | <b>2</b> |
| 5.1 Testing for colour migration between materials.....  | 2        |
| 5.2 Testing for the effect of adhesives.....             | 2        |
| 5.3 Testing for the effect of adhesives in laminate..... | 2        |
| 5.4 Testing components such as soling.....               | 3        |
| <b>6 Test method.....</b>                                | <b>3</b> |
| 6.1 Principle.....                                       | 3        |
| 6.2 Procedure.....                                       | 3        |
| <b>7 Test report.....</b>                                | <b>4</b> |

## 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](http://www.iso.org/directives)).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

ISO 17701 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 309, *Footwear*, in collaboration with ISO Technical Committee TC 216, *Footwear*, in accordance with the arrangement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 17701:2003), which has been technically revised.

# Footwear — Test methods for uppers, lining and insoles — Colour migration

## 1 Scope

This International Standard specifies a test method for determining the propensity of a material to cause discolouration of another material when stored in close contact. This method is applicable to all materials which are used in intimate contact to adhesives which are used to bond them.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 105-A01, *Textiles — Tests for colour fastness — Part A01: General principles of testing*

ISO 105-A02, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*

ISO 105-A03, *Textiles — Tests for colour fastness — Part A03: Grey scale for assessing staining*

ISO 18454, *Footwear — Standard atmospheres for conditioning and testing of footwear and components for footwear*

ISO 19952, *Footwear — Vocabulary*

CIE 15, *Colorimetry*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 19952 and the following apply.

### 3.1

#### **colour migration**

discolouration caused by movement of colour from one material to another

## 4 Apparatus and material

The following apparatus and material shall be used:

**4.1** Knife to cut the test specimen.

**4.2** Two smooth and even glass plates at least 70 mm × 70 mm and a mass of 50 g ± 5 g.

**4.3** Mass of sufficient size that when combined with the mass of the glass plate will exert a pressure of 5,2 kPa ± 0,5 kPa.

NOTE The necessary mass depends of the area of the test specimen to get the same pressure.

#### EXAMPLE

Area of test specimen = 30 mm × 20 mm = 600 mm<sup>2</sup>

Mass = pressure × area