INTERNATIONAL STANDARD

**ISO 17701**

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

*Chaussures — Méthodes d'essai des tiges, de la doublure et des premières de propreté — Migration de la couleur*

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ISO 17701:2016(E)

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# Foreword

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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.


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# Footwear — Test methods for uppers, lining and insocks — 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 $mm^2$

Mass = pressure × area

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