



# Technical Specification

**ISO/TS 20952**

## Footwear — Performance requirements for components for footwear — Uppers

*Chaussures — Exigences de performance pour les composants des  
chaussures — Tiges*

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## 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 document 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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This document was prepared by Technical Committee ISO/TC 216, *Footwear*.

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](http://www.iso.org/members.html).

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# Footwear — Performance requirements for components for footwear — Uppers

## 1 Scope

This document establishes the performance requirements for upper components for footwear (not for the finished footwear), irrespective of the material, in order to assess the suitability for the end use. It also establishes the test methods to be used to evaluate the compliance with the requirements.

This document applies to uppers for all kinds of footwear as defined in [Clause 4](#).

This document can be used as a reference by the footwear manufacturer and the supplier.

## 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 17693, *Footwear — Test methods for uppers — Resistance to damage on lasting*

ISO 17694, *Footwear — Test methods for uppers and lining — Flex resistance*

ISO 17696, *Footwear — Test methods for uppers, linings and insoles — Tear strength*

ISO 17697, *Footwear — Test methods for uppers, lining and insoles — Seam strength*

ISO 17698, *Footwear — Test methods for uppers — Delamination resistance*

ISO 17699, *Footwear — Test methods for uppers and lining — Water vapour permeability and absorption*

ISO 17700, *Footwear — Test methods for upper components and insoles — Colour fastness to rubbing and bleeding*

ISO 17701, *Footwear — Test methods for uppers, lining and insoles — Colour migration*

ISO 17702, *Footwear — Test methods for uppers — Water resistance*

ISO 17704, *Footwear — Test methods for uppers, linings and insoles — Abrasion resistance*

ISO 17706, *Footwear — Test methods for uppers — Tensile strength and elongation*

ISO 17709, *Footwear — Sampling location, preparation and duration of conditioning of samples and test pieces*

ISO 19952, *Footwear — Vocabulary*

ISO 20870, *Footwear — Ageing conditioning*

ISO 80000-1, *Quantities and units — Part 1: General*

EN 1392, *Adhesives for leather and footwear materials — Solvent-based and dispersion adhesives — Testing of bond strength under specified conditions*

EN 15307, *Adhesives for leather and footwear materials — Sole-upper bonds — Minimum strength requirements*

### 3 Terms and definitions

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

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

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

### 4 Classification

The footwear shall be classified according to [Table 1](#).

**Table 1 — Classification**

| Class | Exposure | Shoe type  |
|-------|----------|--|
| A     | slight   | infant shoes, slippers, indoor shoes, fashion shoes                          |
| B     | medium   | casual shoes (adult and children shoes)                                      |
| C     | high     | children school shoes, adult work shoes (not PPE) and general sport shoes    |
| D     | heavy    | heavy work shoes (not PPE), trekking, hiking or similar purpose sports shoes |

### 5 Requirements

#### 5.1 General

This document establishes two different types of performance requirements.

The essential requirements shall all be fulfilled. Additional requirements can be agreed upon by the component supplier and the footwear manufacturer as indicated in [5.2.2](#) and [5.3.2](#).

The results of each determination, as well as the average values, shall be rounded off in accordance with ISO 80000-1.

When taken from finished footwear, the sample shall be prepared in accordance with ISO 17709.

#### 5.2 Performance requirements for uppers components for footwear class A

##### 5.2.1 Essential requirements

The essential requirements in [Table 2](#) shall be fulfilled in all cases.