



SLOVENSKI STANDARD

SIST-TP CEN ISO/TR 20879:2007

01-maj-2007

Obutev - Zahtevane lastnosti za sestavne dele obutve - Zunanji zgornji materiali (ISO/TR 20879:2007)

Footwear - Performance requirements for components for footwear - Uppers (ISO/TR 20879:2007)

Schuhe - Anforderungen an das Gebrauchsverhalten von Schuhbestandteilen - Obermaterialien (ISO/TR 20879:2007)

Chaussures - Exigences de performance pour les composants des chaussures - Tiges (ISO/TR 20879:2007)

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ICS:

61.060 Obuvala Footwear

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ICS 61.060

English Version

**Footwear - Performance requirements for components for
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composants des chaussures - Tiges (ISO/TR 20879:2007)

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Schuhbestandteilen - Obermaterialien (ISO/TR
20879:2007)

This Technical Report was approved by CEN on 21 August 2006. It has been drawn up by the Technical Committee CEN/TC 309.

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Foreword

This document (CEN ISO/TR 20879:2007) has been prepared by Technical Committee CEN/TC 309 "Footwear", the secretariat of which is held by AENOR, in collaboration with Technical Committee ISO/TC 216 "Footwear".

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**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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

In exceptional circumstances, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example), it may decide by a simple majority vote of its participating members to publish a Technical Report. A Technical Report is entirely informative in nature and does not have to be reviewed until the data it provides are considered to be no longer valid or useful.

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.

ISO/TR 20879 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 309, *Footwear*, in collaboration with Technical Committee ISO/TC 216, *Footwear*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Footwear — Performance requirements for components for footwear — Uppers

1 Scope

This Technical Report establishes the performance requirements for uppers 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 Technical Report applies to uppers for all kinds of footwear as defined in Clause 3.

This Technical Report is intended to be used as a reference between the footwear manufacturer and the supplier. It is not intended for third party certification of finished shoes destined for the consumer.

2 Normative references

The following referenced documents are indispensable for the application 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.

- [SIST-TP CEN ISO/TR 20879:2007](https://standards.iteh.ai/catalog/standards/sist/51b647c-6307-407c-bdfe-15a5b429c9f6/sist-tp-cen-iso-tr-20879-2007)
ISO 31-0, *Quantities and units — Part 0: General principles*
- EN 1391, *Adhesives for leather and footwear materials — A method for evaluating the bondability of materials — Minimum requirements and material classification*
- EN 1392, *Adhesives for leather and footwear materials — Solvent-based and dispersion adhesives — Test methods for measuring the bond strength under specified conditions*
- EN ISO 4047, *Leather — Determination of sulphated total ash and sulphated water-insoluble ash*
- EN ISO 4098, *Leather — Chemical tests — Determination of water-soluble matter, water-soluble inorganic matter and water-soluble organic matter*
- EN 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, lining 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 permeability and absorption*
- EN ISO 17700, *Footwear — Test methods for uppers, linings and insoles — Colour fastness to rubbing*
- ISO 17701, *Footwear — Test methods for uppers, lining and insoles — Colour migration*

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

ISO 17703, *Footwear — Test methods for uppers — High temperature behaviour*

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

ISO 17705, *Footwear — Test methods for uppers, lining and insoles — Thermal insulation*

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*

EN ISO 19952, *Footwear — Vocabulary*

3 Terms and definitions

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

4 Requirements

4.1 General

This Technical Report establishes two different types of performance requirement.

The essential requirements shall all be taken into account. The additional ones can be additionally agreed by the component supplier and the footwear manufacturer as indicated in 4.2 to 4.10.

The results of each single analytical determination, as well as the average values, shall be rounded off in accordance with ISO 31-0.

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

4.2 Performance requirements for uppers components for general purpose sports footwear

4.2.1 Essential requirements

These essential requirements shall be fulfilled in all cases. See Table 1.

Table 1 — Test methods and properties for general sports footwear — Essential requirements

Test method	Property	Requirement		
ISO 17694	Flex resistance	For leather, dry 100 000 cycles (w.v.d.) ^a wet 20 000 cycles (w.v.d.)	For coated leather, dry 100 000 cycles (w.v.d.) wet 20 000 cycles (w.v.d.) at – 5 °C 20 000 cycles (w.v.d.)	For other materials, dry 100 000 cycles (w.v.d.) at – 5 °C 20 000 cycles (w.v.d.)
ISO 17696	Tear strength	≥ 40 N average tear force		
EN ISO 17700	Colour fastness	Inside staining: method A: if unlined footwear, must comply ≥ 2/3 after 50 cycles with perspiration solution Outside surface colour change and staining: method A: ≥ 3 (grey scale) after 150 cycles dry and 50 cycles wet. method B: ≥ 3 to 4 (grey scale) after 512 cycles dry and 128 cycles wet.		
^a w.v.d. = without visible damage.				

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