

Technical Specification

ISO/TS 20939

Footwear — Performance requirements for components for footwear — Outsoles

Chaussures — Exigences de performance pour les composants des a l'estaussures — Semelles d'usure

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First edition 2024-11

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Website: www.iso.org
Published in Switzerland

ISO/TS 20939:2024(en)

Con	Contents			
Forev	vord		iv	
1	Scope	9	1	
2	Norm	native references	1	
3	Term	s and definitions	1	
4	Class	ification	2	
5	Requ 5.1 5.2	irements General Performance requirements for outsoles for footwear	2	
6	Mark	ing and labelling	3	

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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).

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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.

ISO/TS 20939:2024

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Footwear — Performance requirements for components for footwear — Outsoles

1 Scope

This document establishes the performance requirements for outsole components for footwear, 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 outsoles for all kinds of footwear as defined in Table 1.

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.

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ISO 17707, Footwear — Test methods for outsoles — Flex resistance
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ISO 17708, Footwear — Test methods for whole shoe — Upper sole adhesion

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

ISO 19952, Footwear — Vocabulary

ISO 20865, Footwear — Test methods for outsoles — Compression energy

 $ISO~20871, Footwear-Test~methods~for~outsoles-Abrasion~resistance~~ \\ \text{(b-f12e99d69fb7/iso-ts-20939-2024)} \\$

ISO 20872, Footwear — Test methods for outsoles — Tear strength

ISO 20873, Footwear — Test methods for outsoles — Dimensional stability

ISO 20874, Footwear — Test methods for outsoles — Needle tear strength

ISO 20875, Footwear — Test methods for outsoles — Determination of split tear strength and delamination resistance

ISO 22654, Footwear — Test methods for outsoles — Tensile strength and elongation

ISO 24267, Footwear — Determination of coefficient of friction for footwear and sole components — Test method

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

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/

ISO/TS 20939:2024(en)

4 Classification

The footwear shall be classified according to <u>Table 1</u>.

Table 1 — Classification

Class	Exposure	Shoe type
A	slight	infant shoes, slippers, indoor shoes, fashion shoes
В	medium	casual shoes (adult and children shoes)
С	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.

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 outsoles for footwear

The essential and additional performance requirements are shown in <u>Table 2</u>. The essential requirements shall be fulfilled in all cases.

ISO/TS 20939:2024

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