

Footwear - Determination of coefficient of friction for footwear and sole components - Test method (ISO 24267:2020)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 24267:2020 sisaldab Euroopa standardi EN ISO 24267:2020 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 24267:2020 consists of the English text of the European standard EN ISO 24267:2020.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.11.2020.	Date of Availability of the European standard is 18.11.2020.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 61.060

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English Version

Footwear - Determination of coefficient of friction for  
footwear and sole components - Test method (ISO  
24267:2020)

Chaussures - Détermination du coefficient de  
frottement pour les chaussures et éléments de semelle  
- Méthode d'essai (ISO 24267:2020)

Schuhe - Bestimmung des Reibungskoeffizienten von  
Schuhen und Sohlenbestandteilen - Prüfverfahren (ISO  
24267:2020)

This European Standard was approved by CEN on 12 October 2020.

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

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## European foreword

This document (EN ISO 24267:2020) 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 UNE.

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of an identical text or by endorsement, at the latest by May 2021, and conflicting national standards shall be withdrawn at the latest by May 2021.

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

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## Endorsement notice

The text of ISO 24267:2020 has been approved by CEN as EN ISO 24267:2020 without any modification.

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## Foreword

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

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).

# Footwear — Determination of coefficient of friction for footwear and sole components — Test method

## 1 Scope

This document provides a method for determining the coefficient of friction between footwear and floorings under conditions simulating those experienced in the phases of a typical walking step when slip is most likely to occur.

The method is applicable to all types of footwear and footwear components, outsole units, heel top pieces (top lifts) and sheet soling materials, excepting PPE footwear (Personal Protective Equipment) and special purpose footwear containing spikes, metal studs or similar.

## 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 13287:2019, *Personal protective equipment — Footwear — Test method for slip resistance*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13287:2019 apply.

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

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

## 4 Principle

The footwear item and underfoot surface are brought into contact, subjected to a specified vertical force for a short period of static contact then moved horizontally relative to one another at a constant speed. The horizontal frictional force is measured at a given time after movement starts and the dynamic coefficient of friction is calculated for the particular conditions of the test.

## 5 Apparatus and materials

Use apparatus and materials in ISO 13287:2019, Clause 4.

NOTE Regarding standard shoemaking last in ISO 13287:2019, 4.1.1, other lasts with the same dimensions of STM603L<sup>TM1)</sup> lasts can also be used.

Additional materials/accessories to test samples according to [8.1](#) to [8.6](#):

**5.1** Cellulosic insole material of around 2 mm in thickness for testing soles which are going to be used in the footwear with an insole (for testing according to [8.2](#) to [8.6](#)).

1) STM603L<sup>TM</sup> is the trade name of a product supplied by SATRA (<https://www.satra.com/>). This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of the product named. Equivalent products may be used if they can be shown to lead to the same results.