

ISIKUKAITSEVAHENDID. TÖÖJALATSID

**Personal protective equipment - Occupational footwear
(ISO 20347:2021 + ISO 20347:2021/Amd 1:2024)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 20347:2022+A1:2024 sisaldab Euroopa standardi EN ISO 20347:2022 ja selle muudatuse A1:2024 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 20347:2022+A1:2024 consists of the English text of the European standard EN ISO 20347:2022 and its amendment A1:2024.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 16.03.2022, muudatus A1 14.02.2024.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 16.03.2022, for A1 14.02.2024.
Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega $\triangleleft A1$ $\triangleleft A1$. Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.	The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags $\triangleleft A1$ $\triangleleft A1$. The standard is available from the Estonian Centre for Standardisation and Accreditation.

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English Version

Personal protective equipment - Occupational footwear
(ISO 20347:2021 + ISO 20347:2021/Amd 1:2024)

Équipement de protection individuelle - Chaussures de
travail (ISO 20347:2021 + ISO 20347:2021/Amd
1:2024)

Persönliche Schutzausrüstung - Berufsschuhe (ISO
20347:2021 + ISO 20347:2021/Amd 1:2024)

This European Standard was approved by CEN on 30 December 2021. Amendment A1 was approved by CEN on 3 September 2023.

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European foreword

This document (EN ISO 20347:2022) has been prepared by Technical Committee ISO/TC 94 "Personal safety -- Personal protective equipment" in collaboration with Technical Committee CEN/TC 161 "Foot and leg protectors" the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by September 2022, and conflicting national standards shall be withdrawn at the latest by March 2023.

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Endorsement notice

The text of ISO 20347:2021 has been approved by CEN as EN ISO 20347:2022 without any modification.

A1 Amendment A1 European foreword

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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.

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ISO 20347 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 161, *Foot and leg protectors*, in collaboration with Technical Committee ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 3, *Foot protection*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 20347:2012), which has been technically revised. The main changes compared to the previous edition are as follows:

- revision of the terms and definitions in Clause 3;
- Figure 1 to Figure 4 revised;
- Tables 1, 2 and 3 revised;
- heel area defined (5.2.3);
- requirement on slip resistance revised (5.3.4 and 6.2.9); marking “SRA, SRB and SRC” deleted; marking “SR” and “Ø” introduced;
- pH value and chromium VI tests added in 5.3.5; former separate clauses under upper, lining, tongue and insole/insock deleted;
- requirement for seam strength of hybrid footwear added (5.3.6);
- requirement for upper materials not fulfilling WVP explained (5.4.6);
- abrasion of insoles revised (5.7.4);

- outsole requirements revised (5.8);
- outsole thickness revised (5.8.2.1);
- flexing resistance of outsole clarified (5.8.5);
- perforation resistant insert, depending on ISO 22568-3 and ISO 22568-4 exchanging EN 12568:2010;
- tolerance added (6.2.3.1);
- former Annex A Hybrid Footwear included in the general text (Table 2, 5.4.1.2);
- optional requirement on ankle protection clarified (6.2.6);
- optional requirement for “SC” scuff caps added (6.2.8);
- water penetration and absorption, symbol “WRU” deleted, symbol “WPA” introduced;
- optional requirement for “LG” Ladder grip of outsoles added (6.4.3);
- marking revised (Table 14 and 18);
- two new categories added, O6 and O7 (Table 17);
- information on obsolescence date added (8.5);
- Annex A with requirements for customized occupational footwear added;
- Annex B assessment of the footwear by the wearer added;
- Annex C Slip resistance added;
- requirement for electrically insulating footwear (EN 50321) deleted.

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A1 Amendment A1 foreword

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Personal protective equipment — Occupational footwear

1 Scope

This document specifies basic and additional (optional) requirements for occupational footwear used for general purpose. It includes, for example, mechanical risks, slip resistance, thermal risks, ergonomic behaviour. It also specifies requirements for occupational footwear equipped with customized insoles, customized occupational footwear or individual manufactured customized occupational footwear. This standard does not cover the property of high visibility because of interaction with the clothing (e.g. trousers cover the footwear) and work area conditions (e.g. dirt, mud).

Special risks are covered by complementary job-related standards (e.g. footwear for firefighters, electrical insulating footwear, protection against chain saw injuries, protection against chemicals and against molten metal splash, protection for motorcycle riders).

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 20344:2021+Amd.1:2024 ^{A1}, *Personal protective equipment — Test methods for footwear*

EN 13832-3:2018, ^{A1} *Footwear protecting against chemicals — Part 3: Requirements for prolonged contact with chemicals* ^{A1}

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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 <https://www.electropedia.org/>

NOTE 1 The component parts of footwear are illustrated in Figures 1, 2 and 3.

NOTE 2 Further terms and definitions can be found in ISO 19952^[1].

3.1

occupational footwear

footwear incorporating features to protect the wearer from injuries which could arise through accidents

3.2

upper

part or parts of a footwear that cover the toes, the top of the foot, the sides of the foot, and optionally the back of the heel; it is attached to the outsole of a footwear

3.3

leather

hide or skin tanned to be imperishable