

ISIKUKAITSEVAHENDID. TÖÖJALATSID

Personal protective equipment - Occupational footwear
(ISO 20347:2021)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 20347:2022 sisaldab Euroopa standardi EN ISO 20347:2022 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 20347:2022 consists of the English text of the European standard EN ISO 20347:2022.
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 and Accreditation.
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English Version

Personal protective equipment - Occupational footwear
(ISO 20347:2021)

Équipement de protection individuelle - Chaussures de
travail (ISO 20347:2021)

Persönliche Schutzausrüstung - Berufsschuhe (ISO
20347:2021)

This European Standard was approved by CEN on 30 December 2021.

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of an identical text or by endorsement, at the latest by September 2022, and conflicting national standards shall be withdrawn at the latest by March 2023.

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.

This document supersedes EN ISO 20347:2012.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For the relationship with EU Directive(s) / Regulation(s), see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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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.

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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 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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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.

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.

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, *Personal protective equipment — Test methods for footwear*

EN 13832-3:2018, *Footwear protecting against chemicals — Part 3: Requirements for footwear highly resistant to chemicals under laboratory conditions*

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