EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 20345

March 2022

+ A1

February 2024

ICS 13.340.50

Supersedes EN ISO 20345:2011

English Version

Personal protective equipment — Safety footwear (ISO 20345:2021 + Amd 1:2024)

Équipement de protection individuelle — Chaussures de sécurité (ISO 20345:2021 + Amd 1:2024)

Persönliche Schutzausrüstung — Sicherheitsschuhe (ISO 20345:2021 + Amd 1:2024)

EN ISO 20345 was approved by CEN on 2021-12-30 and Amendment A1:2024 on 2023-09-03.

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European foreword

This document (EN ISO 20345:2022) 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of an identical text or by endorsement, at the latest by September 2022, and conflicting national standards shall be withdrawn at the latest by March 2023.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 20345:2011.

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.

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Endorsement notice

The text of ISO 20345:2021 has been approved by CEN as EN ISO 20345:2022 without any modification.

[A1] European foreword to Amendment A1 [A1]

[A1] This document (EN ISO 20345:2022/A1:2024) 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 Amendment to the European Standard EN ISO 20345:2022 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2024, and conflicting national standards shall be withdrawn at the latest by August 2024.

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Endorsement notice

The text of ISO 20345:2021/Amd 1:2024 has been approved by CEN as EN ISO 20345:2022/A1:2024 without any modification. [A1]

— 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 of metatarsal protection revised (6.2.6);

— optional requirement on ankle protection clarified (6.2.7);

— optional requirement for “SC” scuff cap abrasion added (6.2.9);

— 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 16 and Table 20);

— two new categories added, S6 and S7 (Table 20);

— information on obsolescence date added (8.5);

— Annex A with requirements for customized safety footwear added;

— Annex B added;

— Annex C 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.

Bibliography

[1] ISO 13287, *Personal protective equipment — Footwear — Test method for slip resistance*

[2] ISO/TR 16178, *Footwear — Critical substances potentially present in footwear and footwear components*

[3] ISO/TR 18690, *Guidance for the selection, use and maintenance of safety and occupational footwear and other personal protective equipment offering foot and leg protection*

[4] ISO 19952, *Footwear — Vocabulary*

[5] ISO 21064:2017, *Prosthetics and orthotics — Foot orthotics — Uses, functions classification and description*

[6] ISO 22568-3, *Foot and leg protectors — Requirements and test methods for footwear components — Part 3: Metallic perforation resistant inserts*

[7] ISO 22568-4, *Foot and leg protectors — Requirements and test methods for footwear components — Part 4: Non-metallic perforation resistant inserts*

〚A1〛*deleted text*〚A1〛

[8] 〚A1〛EN 50321-1:2018〚A1〛, *Live working — Footwear for electrical protection — Part 1: Insulating footwear and overboots*

[9] Regulation No EU, 1907/2006 (REACH) Annex 17

[10] Building Elements Floors B.R.E., Flooring P., Pye and H. W. Harrison. W., 1997