June 2022

DIN EN ISO 20345

ICS 13.340.50

Supersedes
DIN EN ISO 20345:2012-04

Personal protective equipment – Safety footwear (ISO 20345:2021); English version EN ISO 20345:2022, English translation of DIN EN ISO 20345:2022-06

Persönliche Schutzausrüstung –
Sicherheitsschuhe (ISO 20345:2021);
Englische Fassung EN ISO 20345:2022,
Englische Übersetzung von DIN EN ISO 20345:2022-06

Équipement de protection individuelle –
Chaussures de sécurité (ISO 20345:2021);
Version anglaise EN ISO 20345:2022,
Traduction anglaise de DIN EN ISO 20345:2022-06

Document comprises 55 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

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A comma is used as the decimal marker.

National foreword

This standard includes safety requirements.

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" (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was *DIN-Normenausschuss Persönliche Schutzausrüstung* (DIN Standards Committee Personal Protective Equipment), Working Committee NA 075-04-01 AA "Foot and leg protectors".

The DIN documents corresponding to the documents referred to in this document are as follows:

ISO 13287	DIN EN ISO 13287
ISO 19952	DIN EN ISO 19952
ISO 20344:2021	DIN EN ISO 20344:2022-04
ISO 22568-1:2019	DIN EN ISO 22568-1:2021-03
ISO 22568-2:2019	DIN EN ISO 22568-2:2020-01
ISO 22568-3	DIN EN ISO 22568-3
ISO 22568-4	DIN EN ISO 22568-4
ISO/TR 16178	DIN CEN ISO/TR 16178

For current information on this document, please go to DIN's website (www.din.de) and search for the document number in question.

Amendments

This standard differs from DIN EN ISO 20345:2012-04 as follows:

a) terms and definitions have been revised;

b) Figures 1 to 4 have been revised;

c) Table 1, Table 2 and Table 3 have been revised;

d) the heel area has been defined (5.2.3);

e) for toe protection, the reference to EN 12568 has been replaced by references to ISO 22568-1 and ISO 22568-2;

f) the requirement for the slip resistance has been revised (5.3.5 and 6.2.10); the former markings "SRA", "SRB" and "SRC" have been deleted, and the markings "SR" and "Ø" have been introduced;

g) requirements for the seam strength of hybrid footwear have been added (5.3.7);

h) the requirement for upper materials not fulfilling water vapour permeability has been explained (5.4.6);

i) the requirements for the abrasion of insoles have been revised (5.7.4);

j) the requirements for the outsole have been revised (5.8);

k) the clause on the outsole thickness has been revised (5.8.2.1);

l) the requirements for the flexing resistance of the outsole have been clarified (5.8.5);

m) for inserts with resistance to perforation, the test is no longer carried out according to EN 12568, but based on ISO 22568-3 and ISO 22568-4;

n) limit deviations have been added to the requirements for thermal insulation of the sole complex (6.2.3.1);

o) the former Annex A “Hybrid footwear” has been included in the general text;

p) the optional requirement for metatarsal protection has been revised (6.2.6);

q) the optional requirement for ankle protection has been clarified (6.2.7);

r) an optional requirement for scuff caps “SC” has been added (6.2.9);

s) an optional requirement for the ladder grip of outsoles “LG” has been added (6.4.3);

t) the requirements for marking have been revised (Table 16 and Table 20);

u) two new categories, S6 and S7, have been added (Table 20);

v) information on the obsolescence date have been added (8.5);

w) a normative Annex A with requirements for customized safety footwear has been added;

x) an informative Annex B on the assessment of footwear by the wearer has been added;

y) an informative Annex C on slip resistance has been added;

z) a requirement for electrically insulating footwear (EN 50321) has been deleted;

aa) Annex ZA has been revised.

Previous editions

DIN 4843-1: 1975-10, DIN 4843-2: 1975-10, DIN 4843-3: 1975-11, DIN 4843-4: 1975-11
DIN 4843: 1968-07, 1985-08, 1988-12
DIN 4843-100: 1991-03, 1993-08
DIN 23301: 1951-06, 1955xx-11, 1966-11
DIN 23302: 1953-10, 1956x-03, 1963-04
DIN 23312: 1953-09, 1956x-03
DIN 23321: 1958-10
DIN 23322: 1957-09
DIN 23329: 1970-01, 1984-10, 1990-04
DIN 32768: 1985-08, 1990-07
DIN EN 344: 1993-01
DIN EN 344-1: 1997-06
DIN EN 345: 1993-01
DIN EN 345-1: 1997-06
DIN EN 345-2: 1996-08
DIN EN ISO 20345: 2004-10, 2007-12, 2012-04
DIN EN ISO 20345 Corrigendum 1: 2007-08

National Annex NA
(informative)

Bibliography

DIN CEN ISO/TR 16178, *Footwear — Critical substances potentially present in footwear and footwear components*

DIN EN ISO 13287, *Personal protective equipment — Footwear — Test method for slip resistance*

DIN EN ISO 19952, *Footwear — Vocabulary*

DIN EN ISO 20344:2022-04, *Personal protective equipment — Test methods for footwear (ISO 20344:2021)*

DIN EN ISO 22568-1:2021-03, *Foot and leg protectors — Requirements and test methods for footwear component — Part 1: Metallic toecaps (ISO 22568-1:2019, Corrected version 2020-11)*

DIN EN ISO 22568-2:2020-01, *Foot and leg protectors — Requirements and test methods for footwear component — Part 2: Non-metallic toecaps (ISO 22568-2:2019)*

DIN EN ISO 22568-3, *Foot and leg protectors — Requirements and test methods for footwear component — Part 3: Metallic perforation resistant inserts*

DIN EN ISO 22568-4, *Foot and leg protectors — Requirements and test methods for footwear component — Part 4: Non-metallic perforation resistant inserts*

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 20345

March 2022

ICS 13.340.50

Supersedes EN ISO 20345:2011

English Version

Personal protective equipment - Safety footwear (ISO 20345:2021)

Équipement de protection individuelle - Chaussures de sécurité (ISO 20345:2021)

Persönliche Schutzausrüstung - Sicherheitsschuhe (ISO 20345:2021)

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

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