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Responsible committee: PH/1 Safety, protective and occupational footwear

Interested committees:

Title: BS EN 13832-2 Draft Footwear protecting against chemicals. Part 2: Requirements for limited contact with chemicals.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Footwear protecting against chemicals - Part 2: Requirements for limited contact with chemicals

Chaussure protégeant contre les produits chimiques -
Partie 2 : Exigences pour les contacts limités avec les
produits chimiques

Schuhe zum Schutz gegen Chemikalien - Teil 2:
Anforderungen für begrenzten Kontakt mit
Chemikalien

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 161.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 13832-2:2025) has been prepared by Technical Committee CEN/TC 161 “Foot and leg protectors”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13832-2:2018.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

EN 13832, *Footwear protecting against chemicals*, is published in three parts:

- *Part 1: Terminology and test methods*
- *Part 2: Requirements for limited contact with chemicals*
- *Part 3: Requirements for prolonged contact with chemicals*

This standard is intended for use in conjunction with EN ISO 20345:2022, EN ISO 20346:2022 and EN ISO 20347:2022.

Overview of major technical changes compared to the previous edition:

- reference to the new versions (as impacted by related amendments) of EN ISO 20344:2021, EN ISO 20345:2022, EN ISO 20346:2022 and EN ISO 20347:2022;
- new Table 6 with reference to ISO 37;
- new requirement on seam (Table 6);
- new Tables 2 and 7 (inclusion of hybrid footwear).

1 Scope

This document specifies requirements for footwear to protect the user against limited contact in time with specific chemicals.

The following risks are covered: splashing and degradation by chemical.

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.

EN ISO 868:2003, *Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness)* (ISO 868:2003)

ISO 7000:2019, *Graphical symbols for use on equipment — Registered symbols*

prEN 13832-1:2025, *Footwear protecting against chemicals — Part 1: Terminology and test methods*

prEN 13832-3:2025, *Footwear protecting against chemicals — Part 3: Requirements for prolonged contact with chemicals*

EN ISO 20344:2021,¹ *Personal protective equipment — Test methods for footwear* (ISO 20344:2021)

EN ISO 20345:2022,² *Personal protective equipment — Safety footwear* (ISO 20345:2021)

EN ISO 20346:2022,³ *Personal protective equipment — Protective footwear* (ISO 20346:2021)

EN ISO 20347:2022,⁴ *Personal protective equipment — Occupational footwear* (ISO 20347:2021)

ISO 37:2024, *Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in prEN 13832-1:2025, EN ISO 20345:2022 and the following apply.

ISO and IEC maintain terminology 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/>

3.1

footwear for limited contact with chemicals Type U

footwear designed and manufactured to protect the wearer from splashing of chemicals on the upper

Note 1 to entry: The upper contact can be intermittent, not exceeding one hour.

¹ As impacted by EN ISO 20344:2021/A1:2024.

² As impacted by EN ISO 20345:2022/A1:2024.

³ As impacted by EN ISO 20346:2022/A1:2024.

⁴ As impacted by EN ISO 20347:2022/A1:2024.

3.2

footwear for limited contact with chemicals Type US

footwear designed and manufactured to protect the wearer from splashing of chemicals on the upper and contact with the outsole

Note 1 to entry: The upper and outsole contact can be continuous or intermittent, not exceeding one hour.

3.3

footwear for prolonged contact with chemicals

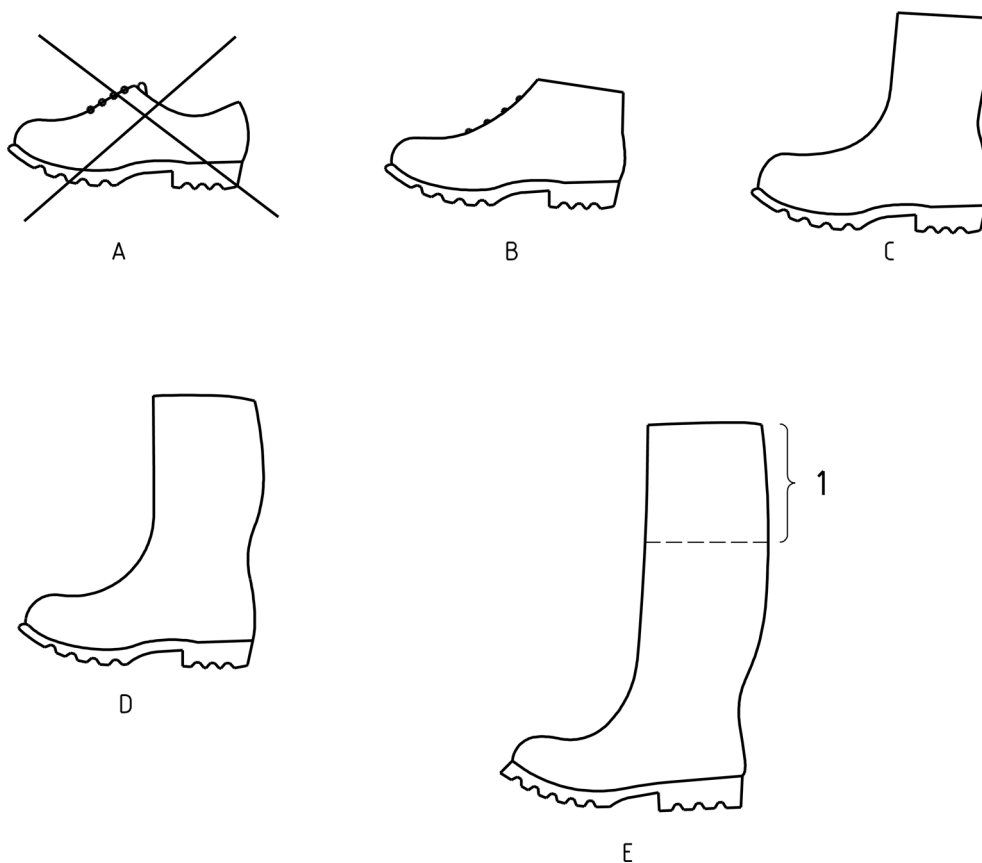
footwear designed and manufactured to protect the wearer from contact with chemicals. The contact can be continuous or intermittent

Note 1 to entry: Prolonged means that it can be more than one hour in permanent contact.

Note 2 to entry: See prEN 13832-3:2025.

4 Design

For footwear for limited contact with chemicals, only designs B, C, D or E in Figure 1 as defined in EN ISO 20345:2022, Table 4, shall be used.



Key

- 1 variable extension that can be adapted to the wearer
- A low shoe
- B ankle boot
- C half-knee boot
- D knee-height boot
- E thigh boot

NOTE Design E is a knee-height boot (design D) equipped with a thin impermeable material that extends the upper and that can be cut to adapt the boot to the wearer.

Figure 1 — Designs of footwear

5 Classification

Footwear for limited contact with chemicals shall be classified in accordance with Table 1.

Table 1 — Classification of footwear

Classification	Description
I	Footwear made from leather and other materials, excluding all-rubber and all-polymeric footwear
II	All-rubber (i.e. entirely vulcanized) and all-polymeric footwear (i.e. entirely moulded) footwear
Hybrid footwear	As defined in EN ISO 20345:2022, 3.19

6 Requirements

6.1 Basic requirements

Footwear for limited contact with chemical shall conform to the requirements specified in Table 2.

Footwear for limited contact with chemical may or may not include a toe cap. The choice shall be made from one of the three columns according to EN ISO 20345:2022, EN ISO 20346:2022 or EN ISO 20347:2022 in Table 2.