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AMENDMENT 1

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**Personal protective equipment —  
Occupational footwear**

**AMENDMENT 1**

*Équipement de protection individuelle — Chaussures de travail*  
*AMENDEMENT 1*

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CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
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This document was prepared by Technical Committee ISO/TC 94, *Personal Safety – Personal protective equipment*, Subcommittee SC 3, *Foot protection*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 161, *Foot and leg protectors*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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### *Clause 2 Normative references*

Update the reference to "ISO 20344:2021" with "ISO 20344:2021+Amd. 1:2023" and update the references throughout the document accordingly.

Change the title of EN 13832-3:2018 to read as follows:



# Personal protective equipment — Occupational footwear

## AMENDMENT 1

*“Footwear protecting against chemicals — Part 3: Requirements for prolonged contact with chemicals”*

### 5.1, Table 2

In the section “Upper”, add an “X” in the last two cells of the the row “Tear strength” to read as follows:

Tear strength	5.4.3	X		X	X
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In the section “Upper”, add an “X” in the last two cells of the the row “Water vapour permeability and coefficient”, to read as follows:

Water vapour permeability and coefficient	5.4.6	X		X	X
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### 5.3.2

Replace the subclause with the following:

“When tested in accordance with ISO 20344:2021+Amd. 1:2023, 5.7 there shall be no leakage of air. For design A of class II footwear, this requirement is not applicable.”

### 5.3.5, 3<sup>rd</sup> paragraph

Replace the paragraph with the following:

“For each leather part tested in accordance with ISO 20344:2021+Amd. 1:2023, 6.11, the chromium VI content shall be less than 3,0 mg/kg.”

### 5.4.1.1, 2<sup>nd</sup> sentence

Add the wording “, except for water vapour permeability and water vapour coefficient (see 5.4.6).” to the end of the sentence, to read as follows:

“Any materials in the upper below the height defined in Table 8 shall meet the requirements of the upper (see Table 2), except for water vapour permeability (WVP) and water vapour coefficient (WVC) (see 5.4.6).”

### 5.4.1.2

Replace the text above Figure 6 with the following:

“Hybrid footwear (3.18) consists of two classes of materials: foot section, Area A, class II material and extended section, area B, class I material.

The Area A, shall be measured as H, between the lowest point of the top of the visible polymer (or rubber) part and the ground (see Figure 6) and shall have a minimum height corresponding to the values given in Table 6 for design B. All material extensions above belong to area B.

All materials shall meet the requirements of the upper depending on the class of material (see Table 2)."

#### 5.4.6

Replace the subclause with the following:

"Footwear shall comply with one of the following criteria's:

- a. If the upper contains an area of maximum 10 % of non-water vapour permeable material, measured according to ISO 20344:2021+Amd. 1:2023, 6.2.3, all remaining materials shall fulfil a water vapour permeability of at least 0,8 mg/(cm<sup>2</sup>·h) and the water vapour coefficient shall be at least 15 mg/cm<sup>2</sup> when tested in accordance with ISO 20344:2021+Amd. 1:2023, 6.6, 6.7 and 6.8
- b. If the upper contains an area of maximum 50 % of non-water vapour permeable material, measured according to ISO 20344:2021+Amd. 1:2023, 6.2.3, all remaining materials shall fulfil a water vapour permeability of at least 2,0 mg/(cm<sup>2</sup>·h)"

#### 5.5.4, Title

Add the abbreviations "WVP" and "WVC" to the title of the subclause, to read as follows:

"Water vapour permeability (WVP) and coefficient (WVC)"

#### 5.5.4, 2<sup>nd</sup> paragraph

Add the wording "and WVC" to the end of the paragraph, to read as follows:

"No test is required, when lining material is present only in the heel area (5.2.3). When there is no stiffener or the stiffener is perforated, the material shall comply also WVP and WVC."

#### 5.7.3, 2<sup>nd</sup> paragraph

Delete the word "membrane" in the sentence and add a 3<sup>rd</sup> paragraph, to read as follows:

"When the insole is covered by a lining, the test piece shall be taken from both, the lining and insole in combination.

The requirement is not applicable for the insoles, where a membrane construction fulfilling the requirement "WR" covers the insole."

#### 5.7.4.1

Add the following second paragraph:

"No abrasion test on the insole is required if the lining or a part of the lining completely covers the insole."