INTERNATIONAL STANDARD

ISO 20344

Third edition 2021-10

AMENDMENT 1

Personal protective equipment — Test methods for footwear

AMENDMENT 1

Équipement de protection individuelle — Méthodes d'essai pour les chaussures

AMENDEMENT 1

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ISO 20344:2021/PRF Amd 1

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Personal protective equipment — Test methods for footwear

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4.2

Replace the 2nd paragraph by:

"If the test requires a defined condition (temperature (23 ± 2) °C and/or (50 ± 5) % RH), it is mentioned in the test method. Where the testing in conditioned atmosphere is not required, the maximum time which shall elapse between removal from the conditioning atmosphere and the start of testing shall not be greater than 10 min, unless otherwise stated in the test method."

Table 1

Replace the text of the 4th line by:

Toecap dimensions B	i Po		3 pairs of footwear or toecaps in sizes S-M-L	1 pair of toecaps
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Replace the text of the 23th line by: / Standards.iteh.ai)

	Ankle protection	A	Yes	5.22	3 footwear in sizes S-M-L	For each footwear 1 test piece (outer) and 1 test piece	
		I	SO 2034	4:2021/PR	F Amd 1	inner (if claimed)	
Replace the text of the 28^{st} line by:							

Height of the upper	В	Yes	6.2.2	3 pairs of footwear in sizes S-M-L	Item of footwear
Area for non-water vapor permeable materials	В	Yes	6.2.3	1 item of footwear size M	1 test piece

Replace the text of the 31st line by:

Flexing resistance	В	Yes	6.5	3 items of footwear in	1 test piece
				different sizes	

Replace the text of the 37th line by:

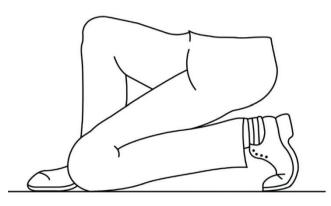
Abrasion resistance	В	No	6.12	footwear or materials	2 test pieces, wet
of lining					2 test pieces, dry

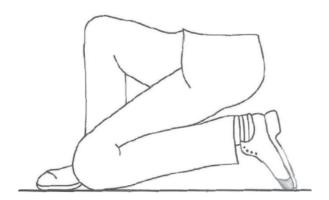
Replace the text of the 44th line by:

Abrasion resistance of insock	В	No	6.12	1	1 test piece, wet 1 test piece, dry
				nents	

Figure 1

Replace Figure 1 by:





a) Position to adopt during the kneel/ crouch down test

b) Position to adopt during the kneeling for scuff cap checking

Figure 1 — Position to adopt during the kneel/crouch down test

5.1.2, Table 2

Add the following line at the end of the existing table:

4.4 During kneeling, the scuff cap prevents the contact of the upper	YES	NO
with the ground	1.41)	

5.1.3

Replace the text of 5.1.3 by:

"The following results shall be reported:

- see 4.4:
- for each tested size, either all positive answers or any failing result.

The determination of measurement uncertainty is not applicable."

5.2.4.3

Replace text of the 2^{nd} sentence of the 1^{st} paragraph by:

"All sole materials in this area shall be tested, see Figure 2."

5.5.3.3

Replace text of the 1st paragraph by:

"Position a cylinder (5.4.1.3) on one of its ends inside the test piece as shown in Figure 13 and 14. Place the test piece in the clamping device (5.4.1.2) and adjust to align the test axis of the test piece with the centre line marked on the clamping device."

5.7.4

Replace the text of 5.7.4 by:

"The following results shall be reported:

see 4.4;

for each tested size, detection of air leakage.

The determination of measurement uncertainty is not applicable."

5.10.4.1

Replace text of the 2nd paragraph by:

"If the non-metallic perforation-resistant insert type PL is not used as an insole (e.g. in a Strobel), the test shall be conducted in accordance 5.9.3."

5.10.5

Replace the text of 5.10.5 by:

"The following results shall be reported:

- see 4.4;
- for each tested size, left and right, results of 5.10.4.2.1 or 5.10.4.2.2
- Note any "tent effect";
- The measurement uncertainty for PS (when requested by the customer).

The determination of measurement uncertainty for PL is not applicable."

5.11.3

Replace the text of 5.11.3 by:

"The following results shall be reported: **Document Preview**

- see 4.4;
- all results as defined in the relevant used standard.

https://starThe determination of measurement uncertainty is not applicable." Oceo3de8ad/iso-20344-2021-prf-amd-1

5.12.3

Replace the text of 5.12.3 by:

"The following results shall be reported:

- see 4.4;
- all results as defined in the relevant used standard.

The determination of measurement uncertainty is not applicable."

5.15.4

Replace the text of the 7th hyphen by:

"— the description of any damage that can seriously affect the functionality of the footwear (e.g. beginning of separation of upper and sole) applying Annex A or any other requirement of other standard (for example ISO 20349-2:2017+Amd 1:2020);"

5.18.1

Replace the 2nd sentence of the 1st paragraph by:

"The water penetration is determined by examination."

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5.18.4.2

Replace the 1st paragraph by:

"With the empty trough, position the turning platforms so that the tester takes 11 paces walking from one to the other with a normal length stride (i.e. so that each foot is placed on the floor of the trough five times). Fill the trough up to a depth of (30 ± 3) mm with water for class I footwear. Fill the trough for hybrid footwear up to a height of 10 mm above H (as defined in ISO 20345:2021 Figure 6 and Table 8)."

5.18.5

Replace the text of 5.18.5 by:

"The following results shall be reported:

- see 4.4;
- for each tested size, left and right, any water penetration.

The determination of measurement uncertainty is not applicable."

5.19.4.2.7

Replace the text of the 2nd hyphen by:

"— For hybrid footwear, up to a height of 10 mm above H (as defined in ISO 20345:2021 Figure 6 and Table 8)."

5.19.5

Replace the text of 5.19.5 by:

"The following results shall be reported: CUM ent Preview

- see 4.4:
- for each tested size, left and right, any water penetration. b2-999d-b60cee3de8ad/iso-20344-2021-prf-amd-1

The determination of measurement uncertainty is not applicable."

5.20.1.4.3

Replace the full text by:

"5.20.1.4.3 Production of wax forms using footwear involves a 2 stages operation, the first of which is to produce a plaster of Paris cast of the inside of the footwear, followed by the production of moulds and casts as described in 5.20.1.4.2. It requires one extra item of footwear, which will be destroyed during the production of the plaster of Paris mould.

Stage 1: Coat with petroleum jelly or releasing agent the inside of an item of footwear the same size as that to be tested. Secure the fastening system and fill to the top of the opening with a mixture of plaster of Paris and water. Leave until set and then remove by cutting away the footwear. After removal, place in an oven at about 80 °C to dry.

Stage 2: Continue as for stage 1 in 5.20.1.4.2 using the plaster of Paris cast in the place of making last.

Continue as for stage 2 in 5.20.1.4.2."

5.21.3

Replace the text of 5.21.3 by: