



SLOVENSKI STANDARD
SIST EN ISO 20344:2022/oprA1:2023
01-oktober-2023

Osebna varovalna oprema - Metode preskušanja obutve - Dopolnilo A1 (ISO 20344:2021/DAM 1:2023)

Personal protective equipment - Test methods for footwear - Amendment 1 (ISO 20344:2021/DAM 1:2023)

Persönliche Schutzausrüstung - Prüfverfahren für Schuhe - Änderung 1 (ISO 20344:2021/DAM 1:2023)

Équipement de protection individuelle - Méthodes d'essai pour les chaussures - Amendement 1 (ISO 20344:2021/DAM 1:2023)

Ta slovenski standard je istoveten z: EN ISO 20344:2021/prA1

ICS:

13.340.50 Varovanje nog in stopal Leg and foot protection

SIST EN ISO 20344:2022/oprA1:2023 en,fr,de

DRAFT AMENDMENT

ISO 20344:2021/DAM 1

ISO/TC 94/SC 3

Secretariat: BSI

Voting begins on:
2023-07-13Voting terminates on:
2023-10-05

Personal protective equipment — Test methods for footwear

AMENDMENT 1

*Équipement de protection individuelle — Méthodes d'essai pour les chaussures**AMENDEMENT 1*

ICS: 13.340.50

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ISO/CEN PARALLEL PROCESSING



Reference number
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EUROPEAN FOREWORD

This document (EN ISO 20344:2021/prA1:2022) has been prepared by Technical Committee CEN/TC 161 "Protective clothing including hand and arm protection and lifejackets", the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

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 relationship with EU Regulation(s), see informative Annex ZA, which is an integral part of this document.

This amendment 1 corrects the edition (ISO 20344:2021):

- correction of editorial mistakes
- Table 1 definition of the sampling for the tests (5.3, 5.22, 6.2.2, 6.2.3, 6.5, 6.12)
- new kneeling test included for scuff cap 5.1.2;
- identification of the test where the uncertainty of measurement cannot be calculated (5.1.3, 5.7.4, 5.10.3, 5.11.3, 5.12.3, 5.18.5, 5.19.5, 5.21.3, 6.5.3, 6.10.3, 6.12.5, 8.9.4)
- water resistance hight of water for hybrid footwear 5.18.4.2, 5.19.4.2;
- inner ankle protection 5.22.4.2 (becomes an optional requirement)
- visual checking of metallic insert 8.6.4.2

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Personal protective equipment — Test methods for footwear

AMENDMENT 1

1 Modification to 4.2, conditioning before and during the test

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.

2 Modification to 4.1, Table 1: Minimum number of samples and test pieces

In the Table 1, replace the text of the 4th line by:

Toecap dimensions	B	No	5.3	3 pairs of footwear or toecaps in sizes S-M-L	1 pair of toecaps
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In the Table 1, replace the text of the 23th line by:

Ankle protection	A	Yes	5.22	3 footwear in sizes S-M-L	For each footwear 1 test piece (outer) and 1 test piece inner (if claimed)
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In the Table 1, replace the text of the 28st line by:

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

In the Table 1, replace the text of the 31st line by:

Flexing resistance	B	Yes	6.5	3 items of footwear in different sizes	1 test piece
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In the Table 1, replace the text of the 37th line by:

Abrasion resistance of lining	B	No	6.12	footwear or materials	2 test pieces, wet 2 test pieces, dry
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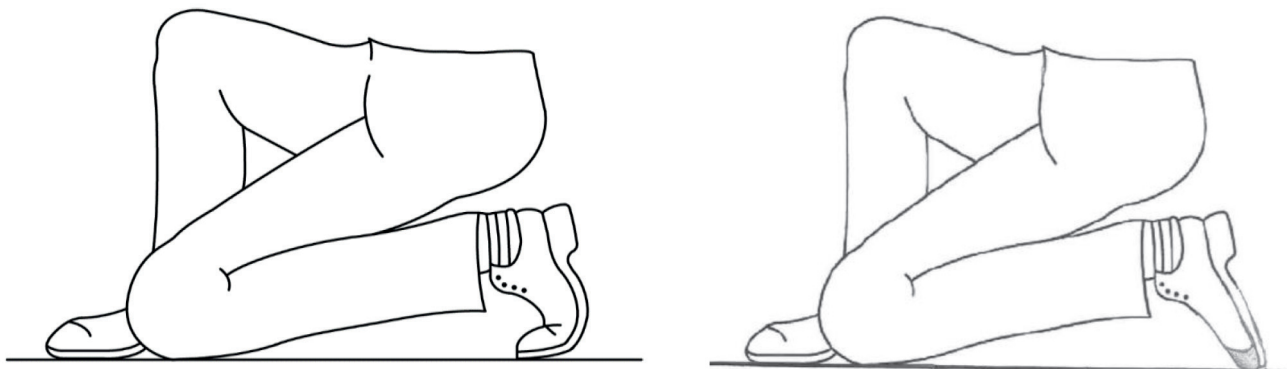
In the Table 1, replace the text of the 44th line by:

Abrasion resistance of insock	B	No	6.12	3 items of footwear in different sizes or 3 samples of the relevant components	1 test piece, wet 1 test piece, dry
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ISO 20344:2021/DAM 1:2023(E)

3 Modification to 5.1.2, Figure 1

Replace figure1 by:



1.a Position to adopt during the kneel/crouch down test

1.b Position to adopt during the kneeling for scuff cap checking

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

4 Modification to 5.1.2, Table 2 — Questionnaire for the assessment of ergonomic features

At the end of table 2, add the following new line:

	4.4 During kneeling, the scuff cap prevents the contact of the upper with the ground	YES	NO
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5 Modification to 5.1.3, Test report

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.

6 Modification to 5.2.4.3, preparation of test pieces....

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

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

7 Modification to 5.5.3.3, Test procedure

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.

8 Modification to 5.7.4, Test report

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.

9 Modification to 5.10.4.1, preparation of test pieces

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.

10 Modification to 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
- Note any “tent effect”;
- The measurement uncertainty for PS (when requested by the customer).

The determination of measurement uncertainty for PL is not applicable.

11 Modification to 5.11.3, Test report

Replace the text of 5.11.3 by: [SIST EN ISO 20344:2022/oprA1:2023](https://standards.iteh.ai/catalog/standards/sist/e3244a4b-a99e-49c1-8707-809007039ee/sist-en-iso-20344-2022-opra1-2023)

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.

12 Modification to 5.12.3, Test report

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.

13 Modification to 5.15.4, test report

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, AM1:2020);

14 Modification to 5.18.1, principle

ISO 20344:2021/DAM 1:2023(E)

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

The water penetration is determined by examination.

15 Modification to 5.18.4.2, Test procedure

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 class1 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).

16 Modification to 5.18.5, Test report

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.

17 Modification to 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).

18 Modification to 5.19.5, Test report

Replace the text of 5.19.5 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.

19 Modification to 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.

20 Modification to 5.21.3, Test report