

INTERNATIONAL STANDARD

ISO
20345

First edition
2004-08-01

AMENDMENT 1
2007-09-01

Personal protective equipment — Safety footwear

AMENDMENT 1

Équipement de protection individuelle — Chaussures de sécurité

AMENDEMENT 1

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 20345:2004/Amd 1:2007

<https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007>



Reference number
ISO 20345:2004/Amd.1:2007(E)

© ISO 2007

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 20345:2004/Amd 1:2007](https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007)

<https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 20345:2004 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 161, *Foot and leg protectors*, in collaboration with Technical Committee ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 3, *Foot protection*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

(standards.iteh.ai)

ISO 20345:2004/Amd 1:2007

<https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007>

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

ISO 20345:2004/Amd 1:2007

<https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007>

Personal protective equipment — Safety footwear

AMENDMENT 1

Page 1, Clause 2

Add the following normative reference:

“ISO 20344:2004/Amd1:2007, *Personal protective equipment — Test methods for footwear — Amendment 1*”

Page 7, Table 2

Insert the following rows immediately beneath the row “Specific ergonomic features” in the section “Whole footwear”:

Requirement		Clause	Classification	
ISO 20345:2004/Amd 1:2007			I	II
Whole footwear	Slip resistance	Annex A		
	Slip resistance on ceramic tile floor with SLS ▲ ^a	Clause A.2		
	Slip resistance on steel floor with glycerol ▲ ^b	Clause A.3	x	x
	Slip resistance on ceramic tile floor with SLS and on steel floor with glycerol ▲ ^c	Clause A.4		

Insert the following into the Note to Table 2:

▲ means that it is obligatory that one of the three slip resistance requirements shall be chosen.

Add the following footnotes immediately after the Note at the end of Table 2:

- ^a Marking symbol “SRA”.
^b Marking symbol “SRB”.
^c Marking symbol “SRC”.

Page 12

Insert the following subclause immediately after 5.3.4.

“ 5.3.5 Slip resistance requirement

Requirements related to slip resistance are specified in Annex A.”

Page 23, Clause 7

In the numbered list, replace bullet f) with the following:

- “f) the symbol(s) from Table 2, including the amendment as described in ISO 20344:2004/Amd1:2007, and Table 14 appropriate to the protection provided or, where applicable, the appropriate category (SB, S1, ... S5), as described in Table 16.”

Page 27

Insert the following annex between 8.3 and the Bibliography:

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 20345:2004/Amd 1:2007
<https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007>

Annex A (normative)

Slip resistance requirement

A.1 General

Safety footwear shall comply with one of the following clauses: A.2 or A.3 or A.4.

The requirements are applicable to conventionally soled safety, protective and occupational footwear. They are not applicable to special purpose footwear containing spikes, metal studs or similar or to special purpose safety footwear to be used on soft ground (sand, sludge, etc.).

A.2 Slip resistance on ceramic tile floor with sodium lauryl sulphate (SLS) solution

Footwear resistant to slip on ceramic tile floor with SLS shall fulfil the requirements of Table A.1.

Table A.1 — Requirements for footwear resistant to slip on ceramic tile floor with SLS

Test conditions of ISO 20344:2004/Amd1:2007, Clause A.1	Coefficient of friction
Condition A (forward heel slip)	Not less than 0,28
Condition B (forward flat slip)	Not less than 0,32

A.3 Slip resistance on steel floor with glycerol

Footwear resistant to slip on steel floor with glycerol shall fulfil the requirements of Table A.2.

Table A.2 — Requirements for footwear resistant to slip on steel floor with glycerol

Test conditions of ISO 20344:2004/Amd1:2007, Clause A.1	Coefficient of friction	
	Values to be applied up to and including 2008-12-31	Values to be applied on and after 2009-01-01
Condition C (forward heel slip)	Not less than 0,12	Not less than 0,13
Condition D (forward flat slip)	Not less than 0,16	Not less than 0,18

A.4 Slip resistance on ceramic tile floor with SLS and on steel floor with glycerol

Footwear resistant to slip on ceramic tile floor with SLS and on steel floor with glycerol shall fulfil the requirements of Table A.3.

Table A.3 — Requirements for footwear resistant to slip on ceramic tile floor with SLS and on steel floor with glycerol

Test conditions of ISO 20344:2004/Amd1:2007, Clause A.1	Coefficient of friction	
	Values to be applied up to and including 2008-12-31	Values to be applied on and after 2009-01-01
Condition A (forward heel slip)	Not less than 0,28	Not less than 0,28
Condition B (forward flat slip)	Not less than 0,32	Not less than 0,32
Condition C (forward heel slip)	Not less than 0,12	Not less than 0,13
Condition D (forward flat slip)	Not less than 0,16	Not less than 0,18

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 20345:2004/Amd 1:2007](https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007)
<https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007>

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

ISO 20345:2004/Amd 1:2007

<https://standards.iteh.ai/catalog/standards/sist/5ff4b425-299b-417e-b8c2-48e99c2e3107/iso-20345-2004-amd-1-2007>