

# SVENSK STANDARD

## SS-EN ISO 20344:2011

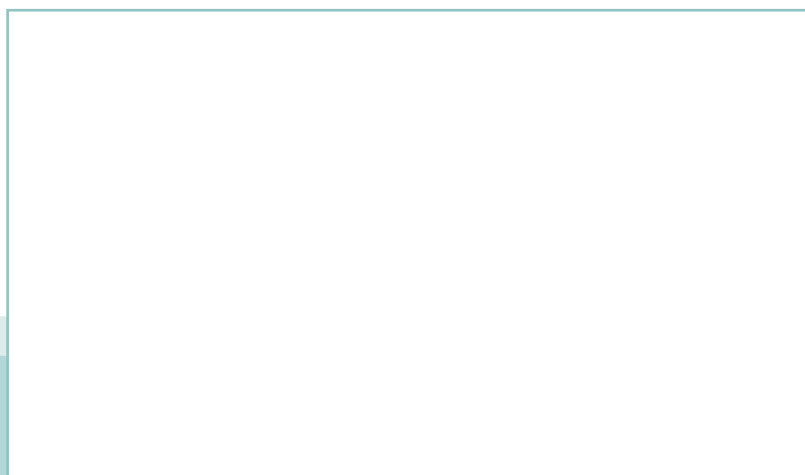


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### **Personlig skyddsutrustning – Provningsmetoder för skodon (ISO 20344:2011)**

### **Personal protective equipment – Test methods for footwear (ISO 20344:2011)**



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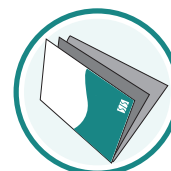
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Europastandarden EN ISO 20344:2011 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN ISO 20344:2011.

Denna standard ersätter SS-EN ISO 20344:2004, utgåva 1 och SS-EN ISO 20344:2004/A1:2007, utgåva 1.

The European Standard EN ISO 20344:2011 has the status of a Swedish Standard. This document contains the official version of EN ISO 20344:2011.

This standard supersedes the Swedish Standard SS-EN ISO 20344:2004, edition 1 and SS-EN ISO 20344:2004/A1:2007, edition 1.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 20344**

December 2011

ICS 13.340.50

Supersedes EN ISO 20344:2004

English Version

**Personal protective equipment - Test methods for footwear (ISO  
20344:2011)**

Équipement de protection individuelle - Méthodes d'essai  
pour les chaussures (ISO 20344:2011)

Persönliche Schutzausrüstung - Prüfverfahren für Schuhe  
(ISO 20344:2011)

This European Standard was approved by CEN on 30 November 2011.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists 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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

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# Contents

Page

Foreword .....	v
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>2</b>
<b>4 Sampling and conditioning .....</b>	<b>2</b>
4.1 Sampling .....	2
4.2 Conditioning .....	2
4.3 Prerequisites on the testing procedure .....	2
<b>5 Test methods for whole footwear .....</b>	<b>5</b>
5.1 Specific ergonomic features .....	5
5.2 Determination of upper/outsole and sole interlayer bond strength .....	6
5.3 Determination of internal toecap length .....	11
5.4 Determination of impact resistance .....	12
5.5 Determination of compression resistance .....	15
5.6 Behaviour of toecaps and inserts (thermal and chemical) .....	17
5.7 Determination of leakproofness .....	18
5.8 Determination of the dimensional conformity of inserts and the penetration resistance of the sole .....	18
5.9 Determination of the flex resistance of penetration-resistant inserts .....	22
5.10 Determination of electrical resistance .....	22
5.11 Determination of footwear slip resistance .....	23
5.12 Determination of insulation against heat .....	26
5.13 Determination of insulation against cold .....	28
5.14 Determination of energy absorption of the seat region .....	29
5.15 Determination of resistance to water for whole footwear .....	31
5.16 Determination of impact resistance of a metatarsal protective device .....	36
5.17 Determination of the shock absorption capacity of ankle protection materials incorporated into the upper .....	40
<b>6 Test methods for upper, lining and tongue .....</b>	<b>42</b>
6.1 Determination of thickness of upper .....	42
6.2 Measurement of the height of the upper .....	42
6.3 Determination of tear strength of the upper, lining and/or tongue .....	43
6.4 Determination of the tensile properties of the upper material .....	43
6.5 Determination of upper flexing resistance .....	44
6.6 Determination of water vapour permeability (WVP) .....	47
6.7 Determination of water vapour absorption (WVA) .....	51
6.8 Determination of water vapour coefficient .....	54
6.9 Determination of pH value .....	54
6.10 Determination of resistance to hydrolysis of upper .....	54
6.11 Determination of chromium VI content .....	54
6.12 Determination of abrasion resistance of lining and insock .....	54
6.13 Determination of water penetration and water absorption for upper .....	57
6.14 Determination of resistance of upper to cutting .....	59
<b>7 Test methods for insole and insock .....</b>	<b>59</b>
7.1 Determination of insole thickness .....	59
7.2 Determination of water absorption and desorption of insole and insock .....	59
7.3 Determination of abrasion resistance of insole .....	62
<b>8 Test methods for outsole .....</b>	<b>64</b>
8.1 Determination of outsole thickness .....	64
8.2 Determination of tear strength of outsole .....	65
8.3 Determination of outsole abrasion resistance .....	65
8.4 Determination of flexing resistance of outsole .....	65

<b>8.5</b>	<b>Determination of resistance to hydrolysis of outsole</b> .....	<b>70</b>
<b>8.6</b>	<b>Determination of resistance to fuel oil</b> .....	<b>70</b>
<b>8.7</b>	<b>Determination of resistance to hot contact</b> .....	<b>71</b>
<b>Annex A</b>	<b>(normative) Procedure for plasticine calibration</b> .....	<b>74</b>
<b>Annex B</b>	<b>(normative) Assessment of footwear by the laboratory during testing of thermal behaviour</b> ..	<b>76</b>
<b>Annex C</b>	<b>(informative) Footwear sizes</b> .....	<b>77</b>
<b>Annex ZA</b>	<b>(informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC</b> .....	<b>78</b>
<b>Bibliography</b>	.....	<b>79</b>



## Foreword

This document (EN ISO 20344:2011) has been prepared by Technical Committee CEN/TC 161 "Foot and leg protectors", the secretariat of which is held by BSI, in collaboration with Technical Committee ISO/TC 94 "Personal safety - Protective clothing and equipment".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2012, and conflicting national standards shall be withdrawn at the latest by June 2012.

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

This document supersedes EN ISO 20344:2004.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

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

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.



# Personal protective equipment — Test methods for footwear

## 1 Scope

This International Standard specifies methods for testing footwear designed as personal protective equipment.

## 2 Normative references

The following referenced documents are indispensable for the application 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.

ISO 34-1:2010, *Rubber, vulcanised or thermoplastic — Determination of tear strength — Part 1: Trouser, angle and crescent test pieces*

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

ISO 1817:2011, *Rubber, vulcanised — Determination of the effect of liquids*

ISO 3290-1, *Rolling bearings — Balls — Dimensions and tolerances*

ISO 3376, *Leather — Physical and mechanical tests — Determination of tensile strength and percentage extension*

ISO 3377-2, *Leather — Physical and mechanical tests — Determination of tear load — Part 2: Double edge tear*

ISO 4045, *Leather — Determination of pH*

ISO 4643:1992, *Moulded plastic footwear — Lined or unlined poly (vinyl chloride) boots for general industrial use — Specification*

ISO 4649:2010, *Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device*

ISO 4674-1:2003, *Rubber- or plastics-coated fabrics — Determination of tear resistance — Part 1: Constant rate of tear methods*

ISO 5423:1992, *Moulded plastic footwear — Lined or unlined polyurethane boots for general industrial use — Specification*

ISO 13287, *Personal protective equipment — Footwear — Test method for slip resistance*

ISO 17075, *Leather — Chemical analysis — Determination of chromium VI*

ISO 20345:2011, *Personal protective equipment — Safety footwear*

ISO 20347, *Personal protective equipment — Occupational footwear*

ISO 23529:2010, *Rubber — General procedures for preparing and conditioning test pieces for physical test methods*

EN 388:2003, *Protective gloves against mechanical risks*

EN 12568:2010, *Foot and leg protectors — Requirements and test methods for toecaps and penetration-resistant inserts*