

**Footwear - Test methods for the assessment of  
ecological criteria**

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## EESTI STANDARDI EESSÕNA

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

## Footwear - Test methods for the assessment of ecological criteria

Chaussure - Méthodes d'essai pour l'évaluation de critères  
écologiquesSchuhe - Prüfverfahren zur Beurteilung ökologischer  
Kriterien

This European Standard was approved by CEN on 13 July 2012.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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## Foreword

This document (EN 14602:2012) has been prepared by Technical Committee CEN/TC 309 "Footwear", the secretariat of which is held by AENOR.

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of an identical text or by endorsement, at the latest by February 2013, and conflicting national standards shall be withdrawn at the latest by February 2013.

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 14602:2004.

The main technical changes that have been made in this new edition of EN 14602 are the following ones:

- changes in the general organisation of the standard; all the criteria for the Ecolabel for footwear that are already covered by European standards are removed from this edition;
- improvement in the test methods for the determination of total heavy metals content;
- criteria on COD and Cr III have been introduced;
- new reference test method for the determination of phthalates;
- new test method for the determination of the electrical energy consumption.

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

## 1 Scope

This European Standard defines certain test methods necessary to issue the footwear Ecolabel, For some criteria, this European Standard provides important clarification or gives a test method to assess the ecological criteria.

NOTE The footwear Ecolabel has been published in the Official Journal of July 28<sup>th</sup>, 2009.

This European Standard applies to any kind of footwear except those containing electrical or electronic components.

The chemical analysis of the metallic components is outside of the scope of this European Standard.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1122:2001, *Plastics — Determination of cadmium — Wet decomposition method*

EN 12868, *Child use and care articles — Methods for determining the release of N-Nitrosamines and N-Nitrosatable substances from elastomers or rubber teats and soothers*

EN ISO 11885, *Water quality — Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES) (ISO 11885)*

CEN ISO/TS 16181, *Footwear — Critical substances potentially present in footwear and footwear components — Determination of phthalates in footwear materials (ISO/TS 16181)*

EN ISO 17072-2:2011, *Leather — Chemical determination of metal content — Part 2: Total metal content (ISO 17072-2:2011)*

EN ISO 17294-2, *Water quality — Application of inductively coupled plasma mass spectrometry (ICP-MS) — Part 2: Determination of 62 elements (ISO 17294-2)*

ISO 8288, *Water quality — Determination of cobalt, nickel, copper, zinc, cadmium and lead — Flame atomic absorption spectrometric methods*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

**3.1**  
**volatile organic compound**  
VOC  
organic compound that has, at 293,15 K, a vapour pressure of 0,01 KPa or more, or that has a corresponding volatility under the particular conditions of use

**3.2**  
**volatile organic compounds emissions**  
VOC emissions  
amount of volatile organic compounds emitted to the atmosphere to produce a pair of shoes