



SLOVENSKI STANDARD

SIST EN 12222:2000

01-december-2000

Footwear - Standard atmospheres for conditioning and testing of footwear and components for footwear

Footwear - Standard atmospheres for conditioning and testing of footwear and components for footwear

Schuhwerk - Normalklimate für Vorbehandlung und Prüfung von Schuhwerk und seinen Bestandteilen

Chaussures - Atmospheres normales de conditionnement et d'essai des chaussures et de leurs éléments constitutifs

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EUROPEAN STANDARD

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Descriptors: shoes, tests, test conditions, test atmospheres, humidity, definitions, specifications, dimensional tolerances

English version

**Footwear - Standard atmospheres for conditioning
and testing of footwear and components for
footwear**

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conditionnement et d'essai des chaussures et de
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This European Standard was approved by CEN on 1997-05-28. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard 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 December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

This European Standard has been prepared based on the following ISO standards referred to atmospheres for conditioning and testing:

- ISO 554 Standard atmospheres for conditioning and/or testing - Specifications
- ISO 558 Conditioning and testing - Standard atmospheres - Definitions

The aim of this European Standard is to harmonize the specifications for the ambient conditions in which test methods for footwear and components for footwear will be carried out.

1 Scope

This European Standard specifies out the general conditioning and testing atmospheres for the evaluation of footwear and footwear component properties.

This European Standard defines two standard atmospheres for conditioning and testing of footwear and footwear components.

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2 Definitions

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For the purpose of this standard the following definitions apply:

2.1 atmosphere: Ambient conditions defined by one or more of the parameters:

- temperature
- relative humidity (RH)

2.2 conditioning: This term refers to the operation as a whole designed to bring a sample or test specimen, before testing, into a specified condition in relation to temperature and humidity, by keeping it for a given period of time in the conditioning atmosphere.

2.3 conditioning atmosphere: The atmosphere in which a sample or test specimen is kept before being subjected to test. It is characterized by specified values for one or more of the parameters temperature, relative humidity which are kept within the prescribed tolerances for a given period of time.

NOTE 1: The conditioning can be done in the laboratory, in a special enclosure termed "the conditioning chamber" or in the test chamber.

NOTE 2: The chosen values and period of time depend on the nature of the sample or test specimen to be tested.

2.4 test atmosphere: The atmosphere to which a sample or test specimen is exposed throughout the test. It is characterized by specified values for one or more of the parameters temperature, relative humidity and pressure, which are kept within the prescribed tolerances.

NOTE : The test may be carried out in the laboratory, in a special chamber termed "the test chamber", or in the conditioning chamber, the choice depending on the nature of the test specimen and on the test itself.

3 General requirements

The standard atmospheres and tolerances for conditioning and testing of footwear and footwear component properties are given in clause 4 and clause 5 respectively.

When the conditioning is carried out at 23 °C and 50 % RH it will not be necessary to indicate this in the test report. In any other case, the ambient conditions must be explicitly stated in the test report.

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4 Standard atmospheres

Table 1: Standard atmospheres

Designation	Temperature °C	Relative humidity %	Remarks
23/50	23	50	Recommended atmosphere
20/65	20	65	Used in certain fields of application

5 Tolerances

Table 2: Tolerances ¹⁾

Tolerances	Temperature °C	Relative Humidity %
Ordinary (normal) tolerances	± 2	± 5 ^{2), 3)}
¹⁾ These tolerances should also be used for other atmospheres if it is specified in the relevant test method ²⁾ The resulting limits of relative humidity, with ordinary tolerances, therefore: 45 % to 55 % and 60 % to 70 % respectively. ³⁾ The uncertainty shall not exceed ± 3 %		

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6 Conditioning

The conditioning atmospheres shall be in accordance with the standard atmospheres (see clause 4).

The period of conditioning shall be stated in the relevant specifications for the component.

7 Testing

Unless otherwise specified in the relevant European standard, the test specimens shall be tested in the same atmosphere as that in which they have been conditioned.

In all cases, the test shall be carried out immediately after removal of the test specimen from the conditioning chamber.