Leather - Physical and mechanical tests -Determination of water vapour absorption

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 17229:2003 sisaldab Euroopa standardi EN ISO 17229:2002 ingliskeelset teksti. This Estonian standard EVS-EN ISO 17229:2003 consists of the English text of the European standard EN ISO 17229:2002.

Käesolev dokument on jõustatud 15.04.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

This document is endorsed on 15.04.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.

Standard on kättesaadav Eesti standardiorganisatsioonist.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This International Standard specifies a method for determining the water vapour absorption of leather

Scope:

This International Standard specifies a method for determining the water vapour absorption of leather

ICS 59.140.30

Võtmesõnad: absorption, leather, leather products, lining, materials testing, mechanical testing, physical testing, sampling, sampling methods, skin (body), specimen preparation, specimens, steam, test specimens, testing, uppers, water vapour absorption

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 17229

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ICS 59,140.30

English version

Leatner

Physical and mechanical tests – Determination of water vapour absorption

(ISO 17229: 2002)

Cuir - Essais physiques et mécaniques - Détermination de l'absorption de vapeur d'eau (ISO 17229 : 2002)

Leder - Physikalische und mechanische Prüfungen – Bestimmung der Wasserdampfaufnahme (ISO 17229: 2002)

This European Standard was approved by CEN on 2002-09-09.

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 Management Centre 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 Management Centre has the same status as the official versions.

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

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

Management Centre: rue de Stassart 36, B-1050 Brussels

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Foreword

International Standard

ISO 17229: 2002 Leather - Physical and mechanical tests - Determination of water vapour absorption,

which was prepared by ISO/TC 120 'Leather' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 289 'Leather', the Secretariat of which is held by UNI, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by June 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 17229: 2002 was approved by CEN as a European Standard without any modification as given above.

NOTE: Normative references to international publications are listed in Annex ZA (normative). Solvino Solvino

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1 Scope

This International Standard specifies a method for determining the water vapour absorption of leather. The method is applicable for all leathers but is particularly relevant for leathers intended for footwear uppers and linings.

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 2418 Leather - Chemical, physical and mechanical and fastness tests - Sampling location

ISO 2419 Leather - Physical and mechanical tests - Sample preparation and conditioning

ISO 3696:1987 Water for analytical laboratory use - Specification and test methods

3 Principle

The test piece and an impermeable material are clamped over the opening of a metal container containing 50 ml of water for a specified time. The water vapour absorption of the test piece is determined by the increase in mass.

4 Apparatus

- **4.1** Cylindrical metal or glass container with internal diameter of 35 mm \pm 0,5 mm, internal depth 104 mm \pm 1 mm and an external diameter at the top opening of at least 55 mm, fitted with a metal ring or lid which can be securely clamped to the cylindrical metal container.
- 4.2 Balance, weighing to 0,001 g.
- 4.3 Stop clock, reading to 1 min.
- **4.4 Vernier callipers**, reading to 0,1 mm.
- 4.5 Disc of impermeable material, for example rubber of metal, with the same diameter as the test piece.
- **4.6** Press knife, the inner wall of which is a right angled circular cylinder of diameter 43 mm \pm 1 mm as specified in ISO 2419.
- 4.7 Distilled or deionized water, conforming to the requirements of grade 3 of ISO 3696:1987.

5 Sampling and sample preparation

5.1 Sample in accordance with ISO 2418. From the sample, cut three circular test pieces by applying the press knife to the grain surface, if distinguishable.

NOTE If there is a requirement for more than two hides or skins to be tested in one batch, then only one test piece need be taken from each hide or skin, provided that the overall total is not less than three test pieces.