

**Leather - Physical and mechanical tests -
Determination of extension set**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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| <p>Käesolev Eesti standard EVS-EN ISO 17236:2003 sisaldab Euroopa standardi EN ISO 17236:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.02.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p> | <p>This Estonian standard EVS-EN ISO 17236:2003 consists of the English text of the European standard EN ISO 17236:2002.</p> <p>This document is endorsed on 18.02.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p> |
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| <p>Käsitlusala: This European Standard specifies a method for determining the extension set of leather. It is intended for use on upholstery leather but is applicable to all flexible leathers</p> | <p>Scope: This European Standard specifies a method for determining the extension set of leather. It is intended for use on upholstery leather but is applicable to all flexible leathers</p> |
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ICS 59.140.30

Võtmesõnad: deformation, elongation, expansion tests, expansions, extensions, flexible materials, leather, leathercloth, mechanical testing, physical testing, strain behaviour, testing

English version

Leather

**Physical and mechanical tests – Determination of extension set
(ISO 17236 : 2002)**

Cuir – Essais physiques et mécaniques – Détermination de la déformabilité (ISO 17236 : 2002)

Leder – Physikalische und mechanische Prüfungen – Bestimmung der bleibenden Dehnung (ISO 17236 : 2002)

This European Standard was approved by CEN on 2002-06-08.

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.

CEN

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

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Foreword

International Standard
ISO 17236 : 2002 Leather – Physical and mechanical tests – Determination of extension set,
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 17236 : 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).

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1 Scope

This International Standard specifies a method for determining the extension set of leather. It is intended for use on upholstery leather but is applicable to all flexible leathers.

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 2589 *Leather - Physical and mechanical tests - Determination of thickness*
- ISO 7500-1 *Metallic materials - Verification of static uniaxial testing machines - Part 1: Tension/compression testing machines - Verification and calibration of the force-measuring system*

3 Principle

A test piece is repeatedly extended at a specified rate until the forces reach a predetermined level and the permanent extension is calculated as a percentage of the original length.

4 Apparatus

4.1 Tensile testing machine, having a force range appropriate to the specimen under test and consisting of a means of recording the force (4.1.1) and jaws that operate at a uniform speed of separation of $50 \text{ mm} \pm 5 \text{ mm/min}$.

4.1.1 Means of recording the force, to an accuracy as specified by Class 2 of ISO 7500-1.

4.1.2 Jaws, minimum length 30 mm in the direction of the applied load, designed to apply constant clamping by mechanical or pneumatic means. The texture and design of the inside faces of the jaws shall be such that at the maximum load attained in the test the test piece does not slip at either jaw.

4.2 Thickness gauge, as specified in ISO 2589.

4.3 Press knife, the inner wall of which is a rectangle $250 \text{ mm} \pm 5 \text{ mm} \times 10,0 \text{ mm} \pm 0,5 \text{ mm}$, conforming to the requirements of ISO 2419.

4.4 Ruler, reading to 0,5 mm.

4.5 Stopwatch, reading to 1 s.

5 Sampling and sample preparation

5.1 Sample in accordance with ISO 2418.