

Leather - Physical and mechanical tests - Determination of thickness

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Determination of thickness

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 2589:2003 sisaldab Euroopa standardi EN ISO 2589:2002 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 2589:2003 consists of the English text of the European standard EN ISO 2589:2002.</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 thickness of leather. The method is applicable to all types of leather of any tannage. The measurement is valid for both the whole leather and a test sample</p>	<p>Scope: This European Standard specifies a method for determining the thickness of leather. The method is applicable to all types of leather of any tannage. The measurement is valid for both the whole leather and a test sample</p>
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ICS 59.140.30

Võtmesõnad: bushings, definition, definitions, dimensions, fells, instruments, interpretations, leather, leather products, mechanical testing, physical testing, sampling, sampling methods, skin (body), testing, thickness, thickness measurement

ICS 59.140.30

English version

Leather

**Physical and mechanical tests – Determination of thickness
(ISO 2589 : 2002)**

Cuir – Essais physiques et mécaniques – Détermination de l'épaisseur
(ISO 2589 : 2002)

Leder – Physikalische und mechanische Prüfungen – Bestimmung der Dicke (ISO 2589 : 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 2589 : 2002 Leather – Physical and mechanical tests – Determination of thickness,
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 follow-
ing 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 2589 : 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 thickness of leather. The method is applicable to all types of leather of any tannage. The measurement is valid for both the whole leather and a test sample.

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*

3 Principle

The leather is placed in a gauge under a specified load for a specified time and the thickness read directly.

4 Apparatus

4.1 Test machine, including the following.

4.1.1 Gauge, graduated to read to 0,01 mm directly with an accuracy of $\pm 0,02$ mm over the whole scale length.

4.1.2 Anvil, comprising the flat horizontal surface of a cylinder of diameter $10,00 \text{ mm} \pm 0,05 \text{ mm}$ projecting $3,0 \text{ mm} \pm 0,1 \text{ mm}$ above the surface of a concentric flat circular platform of diameter $50,0 \text{ mm} \pm 0,2 \text{ mm}$.

NOTE The circular platform of 50 mm diameter helps to support medium weight leathers which might otherwise present a convex surface to the presser foot. The anvil is raised 3 mm above the platform so that errors are avoided in measurements on heavy leathers which are not flat.

4.1.3 Presser foot, having a flat circular surface of diameter $10,0 \text{ mm} \pm 0,05 \text{ mm}$, coaxial with the anvil and capable of movement normal to the face of the anvil. The contacting surfaces of the anvil and presser foot shall be dead weight loaded with $393 \text{ g} \pm 10 \text{ g}$. Movements of the presser foot shall give a direct reading of the movement on the gauge (4.1.1).

NOTE The loads and dimensions quoted in 4.1.3 give a pressure of $49,1 \text{ kPa}$ (500 g/cm^2).