

**Leather - Physical and mechanical tests -  
Determination of the static absorption of  
water**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 2417:2003 sisaldab Euroopa standardi EN ISO 2417:2002 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 2417:2003 consists of the English text of the European standard EN ISO 2417:2002.</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><b>Käsitlusala:</b> This European Standard specifies a method for determining the water absorption of leather under static conditions. The method is applicable to all leather, particularly heavy leather</p>	<p><b>Scope:</b> This European Standard specifies a method for determining the water absorption of leather under static conditions. The method is applicable to all leather, particularly heavy leather</p>
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**ICS** 59.140.30

**Võtmesõnad:** leather, leather products, materials testing, mechanical testing, physical testing, sampling, sampling methods, specimens, test specimens, testing, water absorption, water absorption coefficient, water absorption tests, water-absorption tests

**English version**

**Leather**

Physical and mechanical tests – Determination of static  
absorption of water  
(ISO 2417 : 2002)

Cuir – Essais physiques et mécaniques – Détermination de l'absorption statique d'eau (ISO 2417 : 2002)

Leder – Physikalische und mechanische Prüfungen – Bestimmung der statischen Wasseraufnahme (ISO 2417 : 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

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

Foreword

International Standard

ISO 2417 : 2002 Leather – Physical and mechanical tests – Determination of static absorption of water, 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 2417 : 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 water absorption of leather under static conditions. The method is applicable to all leather, particularly heavy leather.

## 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	<i>Leather - Chemical, physical and mechanical and fastness tests - Sampling location</i>
ISO 2419	<i>Leather - Physical and mechanical tests - Sample preparation and conditioning</i>
ISO 2420	<i>Leather - Physical and mechanical tests - Determination of apparent density</i>
ISO 3696 : 1987	<i>Water for analytical laboratory use - Specification and test methods</i>

## 3 Principle

A test piece of known mass or volume is immersed in water for a known period of time and the volume of water absorbed measured.

## 4 Apparatus

**4.1 Glass Kubelka apparatus**, as shown in Figure 1. The graduated scale shall be readable to 0,1 ml with an accuracy of  $\pm 0,1$  ml. The total volume of the bulb (A) and the graduated tube shall be  $75 \text{ ml} \pm 2 \text{ ml}$ .

**4.2 Rubber stopper (C)**, fitted with a glass rod or a nickel or stainless steel wire of diameter about 1 mm and of sufficient length to keep the test piece at the end of the cylinder (B) distant from the stopper (C).

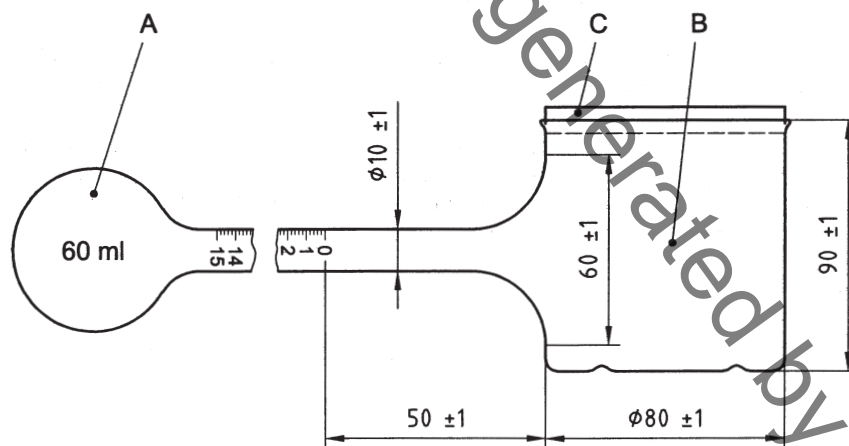


Figure 1 — Kubelka apparatus and stopper (all dimensions in millimetres)