

Leather - Chemical tests - Determination of volatile matter

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 4684:2005 sisaldab Euroopa standardi EN ISO 4684:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.12.2005 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 4684:2005 consists of the English text of the European standard EN ISO 4684:2005.</p> <p>This document is endorsed on 28.12.2005 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 International Standard specifies a method of determination of volatile matter which is applicable to all leather types.</p>	<p>Scope: This International Standard specifies a method of determination of volatile matter which is applicable to all leather types.</p>
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ICS 59.140.30

Võtmesõnad:

ICS 59.140.30

English Version

Leather - Chemical tests - Determination of volatile matter (ISO 4684:2005)

Cuir - Essais chimiques - Détermination des matières volatiles (ISO 4684:2005)

Leder - Chemische Prüfungen - Bestimmung flüchtiger Substanzen (ISO 4684:2005)

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Foreword

This document (EN ISO 4684:2005) has been prepared by Technical Committee CEN/TC 289 "Leather", the secretariat of which is held by UNI, in collaboration with the International Union of Leather Technologists and Chemists Societies (IULTCS).

It is based on Method IUC 5 of the International Union of Leather Technologists and Chemists Societies.

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of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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Endorsement notice

The text of ISO 4684:2005 has been approved by CEN as EN ISO 4684:2005 without any modifications.

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**Leather — Chemical tests —
Determination of volatile matter**

Cuir — Essais chimiques — Détermination des matières volatiles



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4684 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 289, *Leather*, in collaboration with the Chemistry Commission of the International Union of Leather Technologists and Chemists Societies (IUC Commission, IULTCS), in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement). It is based on IULTCS method IUC 5.

IULTCS, originally formed in 1897, is a world-wide organization of professional leather societies to further the advancement of leather science and technology. IULTCS has three Commissions, which are responsible for establishing international methods for the sampling and testing of leather. ISO recognizes IULTCS as an international standardizing body for the preparation of test methods for leather.

Leather — Chemical tests — Determination of volatile matter

1 Scope

This International Standard specifies a method of determination of volatile matter which is applicable to all leather types.

It is not possible to determine the exact moisture content of leather by this method. This is because at elevated temperatures other volatile substances escape and tannins and fats can be oxidized. Some absorbed water may be left in the leather after drying.

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 4044, *Leather — Preparation of chemical test samples*

3 Principle

Leather samples are finely ground and dried in an oven at $102\text{ °C} \pm 2\text{ °C}$ to constant mass. The volatile matter is expressed as the ratio of the change in mass of the sample to the initial mass before drying.

4 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

4.1

volatile matter

(leather) loss of mass by leather when dried to constant mass at $102\text{ °C} \pm 2\text{ °C}$, as described in this method

5 Apparatus

Usual laboratory apparatus is required and, in particular, the following.

5.1 **Flat, shallow weighing vessels with ground glass stoppers, or flat open dishes.**

NOTE Small weighing vessels with ground glass stoppers allow more accurate work to be done than do open dishes.

5.2 **Oven**, capable of being maintained at $102\text{ °C} \pm 2\text{ °C}$.

5.3 **Analytical balance**, weighing to an accuracy of 0,001 g.

5.4 **Desiccator**, suitable for cooling the weighing vessels.