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Leather - Physical and mechanical tests - Specimen and test piece conditioning (ISO 2419:2024)

## EESTI STANDARDI EESSÕNA

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ICS 59.140.30

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EUROPEAN STANDARD

EN ISO 2419

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN ISO 2419:2012

English Version

## Leather - Physical and mechanical tests - Specimen and test piece conditioning (ISO 2419:2024)

Cuir - Essais physiques et mécaniques -  
Conditionnement des spécimens et des éprouvettes  
(ISO 2419:2024)

Leder - Physikalische und mechanische Prüfungen -  
Konditionierung von Proben und Prüfkörpern (ISO  
2419:2024)

This European Standard was approved by CEN on 17 August 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

## European foreword

This document (EN ISO 2419:2024) has been prepared by Technical Committee IULTCS "International Union of Leather Technologists and Chemists Societies" in collaboration with Technical Committee CEN/TC 289 "Leather" the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by February 2025, and conflicting national standards shall be withdrawn at the latest by February 2025.

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

This document supersedes EN ISO 2419:2012.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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## Endorsement notice

The text of ISO 2419:2024 has been approved by CEN as EN ISO 2419:2024 without any modification.

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

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.

This document was prepared by the Physical Test Commission of the International Union of Leather Technologists and Chemists Societies (IUP Commission, IULTCS), in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 289, *Leather*, in accordance with the Agreement on technical co-operation between ISO and CEN (Vienna Agreement).

It is based on IUP 1 and IUP 3 originally published in *J. Soc. Leather Trades Chemists*, **42**, p. 382, (1958) and **42**, p. 386 (1958) respectively, and declared official methods of the IULTCS in 1959. Updated versions were published in *J. Soc. Leather Tech. Chem.*, **82**, p. 199 (1998) and further revisions published in *J. Soc. Leather Tech. Chem.*, **84**, p. 241 (2000), and reconfirmed as official methods in March 2001. A further revision of IUP 3 was published in *J. Soc. Leather Tech. Chem.*, **83**, p. 337 (2002), which was confirmed as an official method in May 2003.

This fifth edition cancels and replaces the fourth edition (ISO 2419:2012), which has been technically revised.

The main changes are as follows:

- the title is changed;
- the terminology is modified to be in line with ISO 2418:2023;
- Clauses 4 and 5 of the previous edition (ISO 2419:2012) have been deleted (these clauses are now part of ISO 2418:2023).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

Conditioning the humidity and temperature of leathers is fundamental prior to the application of physical test. This is due to the dimensional changes which naturally occur within the material.

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# Leather — Physical and mechanical tests — Specimen and test piece conditioning

## 1 Scope

This document specifies the conditioning of leather for physical and mechanical testing in standard atmospheres. It is applicable to all types of dry leather.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 15987, *Leather — Terminology — Key definitions for the leather trade*

ISO 15115, *Leather — Vocabulary*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 15115, EN 15987 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

### 3.1 specimen

portion or part of a leather hide or skin from which *test pieces* (3.2) are cut

### 3.2 test piece

specific portion of a *specimen* (3.1) cut in a suitable shape or dimensions for testing

### 3.3 atmosphere

ambient conditions defined by the parameters temperature and relative humidity

### 3.4 standard atmosphere

atmosphere maintained within prescribed tolerances, in which a *specimen* (3.1) and/or *test pieces* (3.2) are kept for a given period of time before and, if required, during testing

### 3.5 conditioning

operation designed to bring a *specimen* (3.1) and/or *test pieces* (3.2) into a specified condition in relation to temperature and relative humidity by keeping it for a given period of time in the *standard atmosphere* (3.4) with free access of moving air to all surfaces