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**Leather — Physical and mechanical  
tests — Determination of heat  
resistance of patent leather**

*Cuir — Essais physiques et mécaniques — Détermination de la  
résistance à la chaleur des cuirs vernis*



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ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

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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 documents 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)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: [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.

ISO 17232 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 289, *Leather*, the secretariat of which is held by UNI, in collaboration with the Physical Test Commission of the International Union of Leather Technologists and Chemists Societies (IUP Commission, IULTCS), in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

It is based on IUP 38 published in *J. Soc. Leather Tech. Chem.*, **84** (7), p. 403, (2000), and declared an official method of the IULTCS in March 2001.

This second edition cancels and replaces the first edition (ISO 17232:2006), which has been technically revised with the following changes:

- the test conditions in [4.4.4](#) have been clarified;
- a reference to specific standard conditions in [4.5](#) e) and [5.5](#) d) has been removed.

# Leather — Physical and mechanical tests — Determination of heat resistance of patent leather

## 1 Scope

This document specifies two methods for determining the heat resistance of patent leather.

Method A makes use of a modified lastometer, while Method B uses the “Zwik” apparatus. Both methods are applicable to patent leathers for all end uses.

## 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.

ISO 2418, *Leather — Chemical, physical and mechanical and fastness tests — Sampling location*

ISO 2419, *Leather — Physical and mechanical tests — Sample preparation and conditioning*

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

## 3 Terms and definitions

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

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

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

## 4 Method A — Lastometer method

### 4.1 Principle

A perforated test piece is distended by a specified amount. The surface is heated and any damage to the patent finish is noted.

### 4.2 Apparatus

#### 4.2.1 Test machine, including the parts described in 4.2.1.1 to 4.2.1.4.

NOTE An example of a suitable apparatus available commercially is given in [Annex A](#).

**4.2.1.1 Clamp**, capable of holding the test piece around its edge leaving free a central circular area of diameter  $(25,0 \pm 0,1)$  mm. The design of its clamping system shall ensure that the test piece does not slip under the test conditions and neither stretches nor compresses the central area as it is clamped. The boundary between the free and clamped area shall be sharply defined.

**4.2.1.2 Plunger**, terminating in a steel ball of diameter  $(21,0 \pm 0,1)$  mm.