



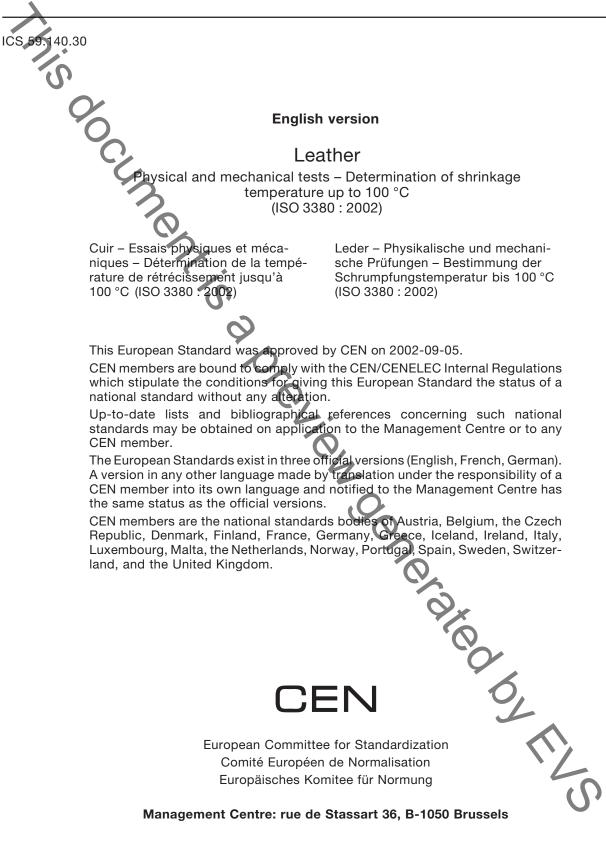
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NATIONAL FOREWORD

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# EN ISO 3380

December 2002



EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

#### Foreword

International Standard

ISO 3380 : 2002 Leather – Physical and mechanical tests – Determination of shrinkage temperature up to 100 °C, 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a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by June 2003 at the latest.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 3380 : 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 determination of the shrinkage temperature of leather up to 100 °C. It is applicable to all leathers.

## 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 Creather - Chemical, physical and mechanical and fastness tests - Sampling location

ISO 2589 Leather - Physical and mechanical tests - Determination of thickness

ISO 3696:1987 Water for analytical laboratory use - Specification and test methods

#### 3 Principle

The test piece is heated at a specified rate in water until a sudden shrinkage occurs.

#### 4 Apparatus

**4.1** A schematic layout of a suitable instrument is shown in figure 1. The instrument should include the following parts:

**4.1.1** Vessel, minimum volume 500 ml and minimum working depth 110 mm. The vessel may be pressurised to operate at temperatures in excess of 100 °C.

**4.1.2** Fixed test piece holder, for example a pinor clip, 30 mm  $\pm$  5 mm above the base of the vessel.

**4.1.3** Moveable test piece holder, for example a hook or clip. One end is attached to the top of the test piece. The other end is attached to a thread which passes over a pulley and terminates in a mass 3 g heavier than the moveable holder.

**4.1.4 Pointer**, with means of monitoring its movement. In the instrument shown, the relative dimensions of the pulley and pointer shall be such that any movement of the moveable holder (4.1.3) is magnified by a factor of at least 5.

**4.1.5** Temperature measuring device, graduated to 1 °C and shown to be accurate to  $\pm$  0,5 °C with the sensor placed close to the centre of the test piece and a working range suitable for the sample under test.

4.1.6 Distilled or de-ionized water, conforming to the requirements of grade 3 of ISO 3696:1987.

**4.1.7** Heater, capable of heating the vessel filled to its working depth with distilled or deionized water at a rate of  $2 \degree C \pm 0.2 \degree C/min$ .

**4.1.8 Stirrer**, capable of sufficiently agitating the water in the vessel such that the temperatures at the top and bottom of the test piece do not differ by more than 1 °C.