

Leather - Physical and mechanical tests - Determination of tensile strength and percentage extension (ISO 3376:2011)

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NATIONAL FOREWORD

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English Version

Leather - Physical and mechanical tests - Determination of tensile strength and percentage extension (ISO 3376:2011)

Cuir - Essais physiques et mécaniques - Détermination de la résistance à la traction et du pourcentage d'allongement (ISO 3376:2011)

Leder - Physikalische und mechanische Prüfungen - Bestimmung der Zugfestigkeit und der prozentualen Dehnung (ISO 3376:2011)

This European Standard was approved by CEN on 14 December 2011.

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Foreword

This document (EN ISO 3376:2011) 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.

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of an identical text or by endorsement, at the latest by June 2012, and conflicting national standards shall be withdrawn at the latest by June 2012.

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

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Leather — Physical and mechanical tests — Determination of tensile strength and percentage extension

1 Scope

This International Standard specifies a method for determining the tensile strength, elongation at a specified load and elongation at break of leather. It is applicable to all types of 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, *Leather — Chemical, physical and mechanical and fastness tests — Sampling location*

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

ISO 2589, *Leather — Physical and mechanical tests — Determination of thickness*

ISO 7500-1:2004, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

3 Principle

A test piece is extended at a specified rate until the forces reach a predetermined value or until the test piece breaks.

4 Apparatus

4.1 Tensile testing machine, with:

- a force range appropriate to the specimen under test;
- a means of recording the force to an accuracy of at least 2 % as specified by Class 2 of ISO 7500-1;
- a uniform speed of separation of the jaws of 100 mm/min \pm 20 mm/min;
- a means of recording the force, e.g. as an extension curve;
- jaws, minimum length 45 mm in the direction of the applied load, designed to apply constant clamping by mechanical or pneumatic means. The texture and design of the inside faces of the jaws shall be such that, at the maximum load attained in the test, the specimen does not slip in either jaw by an amount exceeding 1 % of the original jaw separation.