

Leather - Physical test methods - Determination of water resistance of heavy leathers (ISO 5404:2011)

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NATIONAL FOREWORD

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English Version

Leather - Physical test methods - Determination of water
resistance of heavy leathers (ISO 5404:2011)

Cuir - Méthodes d'essais physiques - Détermination de la
résistance à l'eau des cuirs épais (ISO 5404:2011)

Leder - Physikalische und mechanische Prüfungen -
Bestimmung der Wasserdichtigkeit von schwerem Leder
(ISO 5404:2011)

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

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Foreword

This document (EN ISO 5404:2011) 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of an identical text or by endorsement, at the latest by June 2012, and conflicting national standards shall be withdrawn at the latest by June 2012.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 test methods — Determination of water resistance of heavy leathers

1 Scope

This International Standard specifies a method for determining the water resistance of heavy leathers. The method allows determination of the penetration time, water absorption, area of penetration and water penetration rate as required. It is applicable to all types of heavy 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, *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*

3 Terms and definitions

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

3.1

penetration time

duration of flexing which is just sufficient to cause water to cross from the wetted (grain) surface to the other face of the test piece

NOTE The penetration time is expressed in minutes.

3.2

water absorption

gain in mass of the test piece due to water content during any period of the test

NOTE Water absorption is expressed as a percentage of the conditioned mass of the test piece prior to test.

3.3

area of penetration

sum of the areas where water has crossed from the wetted (grain) surface to the other face of the test piece

NOTE The area is expressed in square millimetres.

3.4

penetration rate

rate at which water is transmitted through the leather

NOTE The penetration rate is expressed in grams per square centimetre (of leather) per hour, based on the mass of water transmitted in the 10 min period after the first penetration of water.