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Leather - Measuring the colour and colour difference of finished leather (ISO 22700:2019)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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Leather - Measuring the colour and colour difference of finished leather (ISO 22700:2019)

Cuir - Mesurage de la couleur et des écarts de couleur des cuirs finis (ISO 22700:2019)

Leder - Messung der Farbe und des Farbunterschiedes von zugerichtetem Leder (ISO 22700:2019)

This European Standard was approved by CEN on 1 March 2019.

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EN ISO 22700:2019 (E)

European foreword

This document (EN ISO 22700:2019) 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of an identical text or by endorsement, at the latest by October 2019, and conflicting national standards shall be withdrawn at the latest by October 2019.

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Endorsement notice

The text of ISO 22700:2019 has been approved by CEN as EN ISO 22700:2019 without any modification.

INTERNATIONAL STANDARD

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Leather — **Measuring the colour and colour difference of finished leather**

Cuir — Mesurage de la couleur et des écarts de couleur des cuirs finis



STN EN ISO 22700: 2019

ISO 22700:2019(E) IULTCS/IUF474:2019(E)



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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).

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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.

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

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.

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.

INTERNATIONAL STANDARD

Leather — Measuring the colour and colour difference of finished leather

1 Scope

This document specifies a method for the correct measurement of the colour of finished leather by instrumental means. The document describes general concepts of colour measurement adapted to leather and the calculation of differences in colour.

This document defines the following:

- a) the use of D65 as the standard light source for the leather industry;
- b) the use of D65 light source 10° as standard conditions for colour matching, for the definition of daylight simulators and as the reference light source for metamerism analysis;
- c) the use of CIEDE2000 as the colour difference formula.

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

ISO 11664-3, Colorimetry — Part 3: CIE tristimulus values

ISO 11664-4, Colorimetry — Part 4: CIE 1976 L*a*b* Colour space

ISO/CIE 11664-6, Colorimetry — Part 6: CIEDE2000 Colour-difference formula

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

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