



SLOVENSKI STANDARD SIST EN ISO 11644:2023

01-januar-2023

Nadomešča:
SIST EN ISO 11644:2009

Usnje - Preskus vezave dodelavnih nanosov (ISO 11644:2022)

Leather - Test for adhesion of finish (ISO 11644:2022)

Leder - Prüfung der Haftfestigkeit von Zurichtungen (ISO 11644:2022)

Cuir - Essai d'adhérence de la couche de finissage (ISO 11644:2022)

Ta slovenski standard je istoveten z: **EN ISO 11644:2022**

ICS:

59.140.30 Usnje in krzno Leather and furs

SIST EN ISO 11644:2023

sl,en,fr

EUROPEAN STANDARD

EN ISO 11644

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2022

ICS 59.140.30

Supersedes EN ISO 11644:2009

English Version

Leather - Test for adhesion of finish (ISO 11644:2022)

Cuir - Essai d'adhérence de la couche de finissage (ISO
11644:2022)Leder - Prüfung der Haftfestigkeit von Zurichtungen
(ISO 11644:2022)

This European Standard was approved by CEN on 14 October 2022.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 11644:2022) has been prepared by Technical Committee ISO/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of an identical text or by endorsement, at the latest by May 2023, and conflicting national standards shall be withdrawn at the latest by May 2023.

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

This document supersedes EN ISO 11644:2009.

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Endorsement notice

SIST EN ISO 11644:2023

The text of ISO 11644:2022 has been approved by CEN as EN ISO 11644:2022 without any modification.

INTERNATIONAL
STANDARD

ISO
11644

IULTCS
IUF 470

Third edition
2022-10

Leather — Test for adhesion of finish

Cuir — Essai d'adhérence de la couche de finissage

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Reference numbers
ISO 11644:2022(E)
IULTCS/IUF 470:2022(E)

ISO 11644:2022(E)
IULTCS/IUF 470:2022(E)

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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ISO 11644:2022(E)
IULTCS/IUF 470:2022(E)

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

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.

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.

This document was prepared by the Fastness Tests 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*, in accordance with the agreement on technical cooperation between ISO and CEN (Vienna Agreement).

It is based on IUF 470 published in *J. Soc. Leather Tech. Chem.*, **74**, pp. 155–160, 1990, and was declared an official method of the IULTCS in September 1991.

This third edition cancels and replaces the second edition (ISO 11644:2009), which has been technically revised.

The main changes are as follows:

- [Clause 1](#): addition in the Scope of exclusions from the field of application of unpigmented articles or articles without a continuous coating layer;
- [Clause 7](#): modifications of conditioning of test specimens and specimens bonding time;
- [Clause 9](#): modifications in the test report.

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.

Introduction

Prior to the first edition of this document in 1993, a similar test method to that specified here, using an epoxy adhesive and metal adherent plates, had been in use in the leather trade for many years, but was never declared an official method by IULTCS or ISO. The adhesive frequently penetrates thin finish films, thus increasing the adhesion value unrealistically, and it is usually not possible to measure wet adhesion as there is insufficient adhesion to the metal when water is present. Finishes with insufficient adhesion to the adhesive also occur quite frequently. In spite of these drawbacks, this old method was used regularly and was referred to in many specifications. The method specified in this document eliminates most of these drawbacks.

The adhesives used in this method harden quickly and there is no time for them to penetrate even quite thin finishes unless the finish has open cracks in it. While adhesion to most finishes is sufficient, a few cases still exist in which the adhesion is insufficient and either a different adhesive has to be used or the surface lightly roughened. As the adhesive does not penetrate, it is quite possible to test different layers of a multi-layer finish separately. Such a finish can be tested several times until all the layers have been removed from the leather. It would be advisable for specifications to make allowance for this fact.

A strip of hard PVC is used as the adherent plate; this gives good adhesion under wet conditions. Wet adhesion can therefore be measured easily. Experience has shown that this “real” wet-adhesion value is often lower, a fact that is also to be considered when drawing up specifications based on this method.

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