# Nahk. Viimistlusmaterjali püsivuse katsetamine

Leather - Test for adhesion of finish



#### **EESTI STANDARDI EESSÕNA**

#### **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN ISO 11644:2009 sisaldab Euroopa standardi EN ISO 11644:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.07.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.05.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 11644:2009 consists of the English text of the European standard EN ISO 11644:2009.

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# EUROPEAN STANDARD

## **EN ISO 11644**

# NORME EUROPÉENNE EUROPÄISCHE NORM

May 2009

ICS 59.140.30

Supersedes EN ISO 11644:2003

#### **English Version**

### Leather - Test for adhesion of finish (ISO 11644:2009)

Cuir - Essai d'adhérence du finissage (ISO 11644:2009)

Leder - Prüfung der Haftfestigkeit von Zurichtungen (ISO 11644:2008)

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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#### **Foreword**

This document (EN ISO 11644:2009) has been prepared by Technical Committee CEN/TC 289 "Leather", the secretariat of which is held by UNI, in collaboration with Technical Committee ISO/TC IULTCS "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of an identical text or by endorsement, at the latest by November 2009, and conflicting national standards shall be withdrawn at the latest by November 2009.

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#### Introduction

Prior to the first edition of this International Standard in 1993, a similar test method to that specified here, using an expoxy 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 International Standard 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 whe. adhesion can therefore be measured easily. Experience has shown that this "real" wet-adhesion value is often lower, a fact that must also be considered when drawing up specifications based on this method.

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## Leather — Test for adhesion of finish

#### 1 Scope

This International Standard specifies a method for measuring the adhesion of the finish to leather or the adhesion between two adjacent layers of the finish.

The method is valid for all finished leathers with a smooth surface that can be bonded to an adherent-plate without the adhesive penetrating into the finish. Preliminary experiments might be necessary to determine whether these conditions are met.

This test method is valid for finished leathers with a finish-coat thickness of at least 15 µm.

#### 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 105-A02, Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour

ISO 2418, Leather — Chemical, physical and mechanical and fastness tests — Sampling location

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

ISO 3696, Water for analytical laboratory use — Specification and test methods

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