



**SLOVENSKI STANDARD**  
**SIST EN 13336:2022**

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**Nadomešča:**  
**SIST EN 13336:2013**

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**Usnje - Značilnosti usnja za oblazinjenje - Vodilo za izbiro usnja za pohištvo**

Leather - Upholstery leather characteristics - Guide for selection of leather for furniture

Leder - Richtwerte für Möbelleder - Leitfaden zur Auswahl von Möbelleder

Cuir - Caractéristiques des cuirs de garniture - Guide pour le choix de cuirs pour l'ameublement

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**Ta slovenski standard je istoveten z: EN 13336:2022**

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**ICS:**

59.140.30	Usnje in krzno	Leather and furs
97.140	Pohištvo	Furniture

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EUROPEAN STANDARD

EN 13336

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ICS 59.140.30

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English Version

## Leather - Upholstery leather characteristics - Guide for selection of leather for furniture

Cuir - Caractéristiques des cuirs de garniture - Guide pour le choix de cuirs pour l'ameublement

Leder - Richtwerte für Möbelleder - Leitfaden zur Auswahl von Möbelleder

This European Standard was approved by CEN on 13 June 2022.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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## European foreword

This document (EN 13336:2022) has been prepared by 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of an identical text or by endorsement, at the latest by January 2023, and conflicting national standards shall be withdrawn at the latest by January 2023.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 13336:2012.

In comparison with the previous edition, the following technical modifications have been made:

- updating of Clause 2 “Normative references”;
- addition of the new Clause 7.2 “Procedure for results evaluation”;
- Tables A.1.a; A.1.b; A.1.c and A.2.1 have been rationalized in Table 1 and Table 2, with modifications;
- pigmented leather values have been enlarged to coated and other kind of leather;
- new parameter “dry flex resistance” has been introduced, as fundamental characteristic;
- pH minimum value has been modified from 3,2 to 3,5;
- “colour fastness to water spotting” has been moved from subsidiary to fundamental characteristic;
- Annex A has been deleted and the text and tables included in the text of Clause 7.1.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 13336:2022 (E)

## Introduction

This document was prepared by CEN/TC 289 “Leather” in order to provide the leather and furniture industries with guidelines on which both sellers and buyers can base their negotiations.

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## 1 Scope

This document gives guidelines for the test methods and recommended values for upholstery leather for furniture.

This document also specifies the sampling and conditioning procedures of specimens.

Furs, hair-on leathers and wool-on leathers are not covered by this document.

## 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.

EN 1021-1, *Furniture - Assessment of the ignitability of upholstered furniture - Part 1: Ignition source smouldering cigarette*

EN 1021-2, *Furniture - Assessment of the ignitability of upholstered furniture - Part 2: Ignition source match flame equivalent*

EN 15987, *Leather - Terminology - Key definitions for the leather trade*

EN ISO 105-B02, *Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02)*

EN ISO 2418, *Leather - Chemical, physical and mechanical and fastness test - Sampling location (ISO 2418)*

EN ISO 2419, *Leather - Physical and mechanical tests - Sample preparation and conditioning (ISO 2419)*

EN ISO 3377-1, *Leather - Physical and mechanical tests - Determination of tear load - Part 1: Single edge tear (ISO 3377-1)*

EN ISO 4044, *Leather - Chemical tests - Preparation of chemical test samples (ISO 4044)*

EN ISO 4045, *Leather - Chemical tests - Determination of pH and difference figure (ISO 4045)*

EN ISO 5402-1, *Leather - Determination of flex resistance - Part 1: Flexometer method (ISO 5402-1)*

EN ISO 11640, *Leather - Tests for colour fastness - Colour fastness to cycles of to-and-fro rubbing (ISO 11640)*

EN ISO 11641, *Leather - Tests for colour fastness - Colour fastness to perspiration (ISO 11641)*

EN ISO 11644, *Leather - Test for adhesion of finish (ISO 11644)*

EN ISO 15700, *Leather - Tests for colour fastness - Colour fastness to water spotting (ISO 15700)*

EN ISO 17233, *Leather - Physical and mechanical tests - Determination of cold crack temperature of surface coatings (ISO 17233)*

**EN 13336:2022 (E)****3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 15987 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

**4 General principles**

This document considers the performance of different types of leather intended for upholstery. The characteristics, recommended values and test methods are stated in Table 1. Subsidiary characteristics are stated in Table 2.

**5 Sampling**

If the leather piece available for testing is a whole hide or skin then the test specimens shall be sampled in accordance with standard procedures given in EN ISO 2418. If sampling in accordance with EN ISO 2418 is not possible (e.g. leathers are from finished products) details about the sampling shall be given in the test report.

**6 Conditioning and sampling preparation**

Leather samples shall be conditioned and prepared for physical, mechanical and fastness tests in accordance with the reference standard atmosphere specified in EN ISO 2419.

Leather samples for chemical tests shall be conditioned and prepared in accordance with EN ISO 4044.

**7 Fundamental and complementary characteristics, test methods, procedure for results evaluation and recommended values****7.1 General**

All the fundamental characteristics indicated in Table 1 shall be taken into account.

The complementary characteristics stated in Table 2 shall be agreed by the parties according to the intended end use of the leather.

Whilst the values in Tables 1 and 2 are typical of those expected, it is advisable to issue appropriate guidance with upholstered furniture to inform consumers of likely performance as well as in service care and maintenance instructions in order to avoid unnecessary problems.

**7.2 Procedure for results evaluation**

When the parameter to be evaluated is leather damage, magnification is required; a magnifying glass (6 x to 8 x) shall be used to evaluate the results of the methods specified in the following standards:

- EN ISO 11640
- EN ISO 11644
- EN ISO 5402-1
- EN ISO 15700
- EN ISO 17233



Table 1 — Fundamental characteristics, test methods and recommended values

Fundamental characteristics	Test method		Recommended values		
			Nubuck, Suede and Aniline	Semi-aniline	Coated, Pigmented and other
pH and $\Delta$ pH	EN ISO 4045		$\geq 3,5$ If the pH value is $< 4,0$ $\Delta$ pH $\leq 0,7$	$\geq 3,5$ If the pH value is $< 4,0$ $\Delta$ pH $\leq 0,7$	$\geq 3,5$ If the pH value is $< 4,0$ $\Delta$ pH $\leq 0,7$
Tear load, average value	EN ISO 3377-1		$\geq 20$ N	$\geq 20$ N	$\geq 20$ N
Colour fastness to to-and-fro rubbing	EN ISO 11640 Total mass of finger 1 000 g EN ISO 11641 Perspiration alkaline solution is defined in EN ISO 11641	Aspects to be evaluated	Change of leather colour and felt staining	Change of leather colour and felt staining No destruction of finish	Change of leather colour and felt staining No destruction of finish
		- using dry felt	50 cycles, $\geq 3$ grey scale	500 cycles, $\geq 4$ grey scale	500 cycles, $\geq 4$ grey scale
		- using wet felt	20 cycles, $\geq 3$ grey scale	80 cycles, $\geq 3/4$ grey scale	250 cycles, $\geq 3/4$ grey scale
		- using felt wetted with artificial perspiration	20 cycles, $\geq 3$ grey scale	50 cycles, $\geq 3/4$ grey scale	80 cycles, $\geq 3/4$ grey scale
Colour fastness to artificial light	EN ISO 105-B02 (Method 3)		$\geq 3$ blue scale	$\geq 4$ blue scale	$\geq 5$ blue scale
Dry finish adhesion	EN ISO 11644		-	$\geq 2$ N/10 mm	$\geq 2$ N/10 mm
Dry flex resistance	EN ISO 5402-1		For aniline leather with non-pigmented finish only, 20 000 cycles (No finish damage cracks)	50 000 cycles (No finish damage cracks)	50 000 cycles (No finish damage cracks)
Colour fastness to water spotting	EN ISO 15700		$\geq 3$ grey scale (No permanent swelling)	$\geq 3$ grey scale (No permanent swelling)	$\geq 3$ grey scale (No permanent swelling)

Table 2 — Complementary characteristics, test methods and recommended values

Complementary characteristics	Test methods	Recommended values		
		Nubuck, Suede and Aniline	Semi-aniline	Coated, Pigmented and Other
Cold crack resistance of finish	EN ISO 17233		- 15 °C (No finish crack)	- 15 °C (No finish crack)
Burning behaviour Use in absence of national regulations	EN 1021-1 and EN 1021-2	Pass	Pass	Pass

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