



SLOVENSKI STANDARD
SIST EN ISO 4045:2000
01-februar-2000

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Leather - Determination of pH (ISO 4045:1977)

Leder - Bestimmung des pH (ISO 4045:1977)

Cuir - Détermination du pH (ISO 4045:1977)

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Ta slovenski standard je istoveten z: EN ISO 4045:1998

[SIST EN ISO 4045:2000](https://standards.iteh.ai/catalog/standards/sist/dc35c400-51e7-4f61-9b82-ba8ce20b51ea/sist-en-iso-4045-2000)

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ICS:

59.140.30

SIST EN ISO 4045:2000

en

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ICS 59.140.30

Descriptors: see ISO document

English version

Leather - Determination of pH (ISO 4045:1977)

Cuir - Détermination du pH (ISO 4045:1977)

Leder - Bestimmung des pH (ISO 4045:1977)

This European Standard was approved by CEN on 30 April 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from the "International Union of Leather Technologists and Chemists Societies" has been taken over as an European Standard 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of an identical text or by endorsement, at the latest by January 1999, and conflicting national standards shall be withdrawn at the latest by January 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 4045:1977 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 4044	1977	Leather - Preparation of chemical test samples	EN ISO 4044	1998

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INTERNATIONAL STANDARD



4045

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Leather — Determination of pH

Cuir — Détermination du pH

First edition — 1977-09-15

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[SIST EN ISO 4045:2000](https://standards.iteh.ai/catalog/standards/sist/dc35c400-51e7-4f61-9b82-ba8ce20b51ea/sist-en-iso-4045-2000)

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UDC 675 : 543.257.1

Ref. No. ISO 4045-1977 (E)

Descriptors : leather, chemical tests, measurement, pH.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4045 was developed by Technical Committee ISO/TC 120, *Leather*, and was circulated to the member bodies in May 1976.

STANDARD PREVIEW
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It has been approved by the member bodies of the following countries :

Australia	Hungary	Netherlands
Brazil	India	New Zealand
Canada	Iran	Poland
Chile	Ireland	Portugal
Czechoslovakia	Israel	South Africa, Rep. of
France	Korea, Rep. of	Spain
Germany	Mexico	Turkey

SIST EN ISO 4045:2000
<https://standards.iteh.ai/catalog/standards/sist/dc35c400-51e7-4f61-9b82-ba8ce20b51e7/sist-en-iso-4045-2000>

The member body of the following country expressed disapproval of the document on technical grounds :

U.S.S.R.

Leather — Determination of pH

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method for determining the pH and the difference figure of an aqueous leather extract.

2 REFERENCES

ISO 4044, *Leather — Preparation of chemical test samples*.

ISO . . ., *Leather — Methods of sampling for chemical analysis*.¹⁾

3 DEFINITION

For the purpose of this International Standard the following definition applies :

difference figure : The difference between the pH value of a solution and that of its ten-fold dilution.

It is a measure of the strength of acids and bases and can never exceed the value 1. The difference figure amounts to 0,7 to 1,0 when a solution contains a free strong acid (or a free strong base). The ionization of weak acids and bases increases with greater dilution, and therefore the difference figure can only act as a criterion for the presence of free strong acid or base in aqueous extracts with pH values below 4 or over 10.

4 PRINCIPLE

Preparation of an aqueous extract from a test portion of the leather, and measurement of the pH of the extract, using a pH meter.

5 REAGENTS

5.1 Water having a pH value between 6 and 7 and a conductivity not greater than 2×10^{-6} S/cm at 20 °C.

The water shall be kept in a freshly boiled-out container of resistant glass of low alkali content.

5.2 Buffer solution, for calibrating the electrode system.

It is preferable to purchase a standard buffer solution for measurement. If purchased in concentrated form, the control buffer must be freshly prepared each time. The length of time for which buffer solutions will keep depends on their composition and the method of use. Control of the accuracy of the buffer solution is therefore indispensable.

Used buffer solution shall be discarded.

6 APPARATUS

6.1 Suitable shaker, adjusted to a frequency of 50 ± 10 min⁻¹.

6.2 pH meter with glass electrode, with a measuring range from 0 to 14 pH units, graduated in 0,05 pH unit. The electrode system shall be calibrated at intervals against the buffer solution (5.2).

NOTE — Aqueous extracts of heavily fat-liquored leather may in time make the electrode membrane dirty. In such cases the membrane should be lightly rubbed with a piece of cotton wool dipped in acetone or the electrode should be suspended in a 1 : 1 water-acetone mixture. After cleaning, the membrane should again be thoroughly soaked in water.

6.3 Balance, accurate to 0,05 g.

6.4 Glassware, as follows :

6.4.1 Wide-mouthed flask with leak-proof stopper, capacity 100 ml.

6.4.2 Measuring cylinder, capacity 100 ml, graduated in 1 ml divisions.

6.4.3 Volumetric flask, capacity 100 ml.

1) In preparation.