



SLOVENSKI STANDARD SIST EN ISO 3960:2005

01-junij-2005

Animal and vegetable fats and oils - Determination of peroxide value (ISO 3960:2001)

Tierische und pflanzliche Fette und Öle - Bestimmung der Peroxidzahl (ISO 3960:2001)

Corps gras d'origines animale et végétale - Détermination de l'indice de peroxyde (ISO 3960:2001)

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Ta slovenski standard je istoveten z: **EN ISO 3960:2004**

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ICS:

67.200.10 Animal and vegetable fats and oils

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 3960

December 2004

ICS 67.200.10

English version

**Animal and vegetable fats and oils - Determination of peroxide
value (ISO 3960:2001)**

Corps gras d'origines animale et végétale - Détermination
de l'indice de peroxyde (ISO 3960:2001)

Tierische und pflanzliche Fette und Öle - Bestimmung der
Peroxidzahl (ISO 3960:2001)

This European Standard was approved by CEN on 21 December 2004.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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EN ISO 3960:2004 (E)**Foreword**

The text of ISO 3960:2001 has been prepared by Technical Committee ISO/TC 34 "Agricultural food products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 3960:2004 by Technical Committee CEN/TC 307 "Oilseeds, vegetable and animal fats and oils and their by-products - Methods of sampling and analysis", the secretariat of which is held by AFNOR.

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 June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

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

Endorsement notice
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The text of ISO 3960:2001 has been approved by CEN as EN ISO 3960:2004 without any modifications.

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INTERNATIONAL STANDARD

**ISO
3960**

Third edition
2001-12-01

Animal and vegetable fats and oils — Determination of peroxide value

Corps gras d'origines animale et végétale — Détermination de l'indice de peroxyde

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

International Standard ISO 3960 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 11, *Animal and vegetable fats and oils*.

This third edition cancels and replaces the second edition (ISO 3960:1998), which has been technically revised.

Annex A of this International Standard is for information only.

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Animal and vegetable fats and oils — Determination of peroxide value

1 Scope

This International Standard specifies a method for the determination of the peroxide value of animal and vegetable fats and oils.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 661, *Animal and vegetable fats and oils — Preparation of test sample*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*

3 Term and definition

[SIST EN ISO 3960:2005](https://standards.iteh.ai/catalog/standards/sist/61ba459c-d8ac-4a45-b184-126407329126/iso-3960-2005)

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For the purposes of this International Standard, the following term and definition applies.

3.1

peroxide value

quantity of those substances in the sample, expressed in terms of active oxygen, which oxidize potassium iodide under the conditions specified in this International Standard, divided by the mass of the test portion

NOTE 1 Peroxide value is usually expressed in industry as milliequivalents per kilogram.

NOTE 2 Peroxide value may also be expressed (in SI units) as millimoles per kilogram. The value expressed in millimoles per kilogram is half that expressed in milliequivalents per kilogram (see clause 10).

4 Principle

A test portion, in solution in acetic acid and isooctane, is treated with a solution of potassium iodide. The liberated iodine is titrated with a standard volumetric sodium thiosulfate solution.

5 Reagents

Use only reagents of recognized analytical grade, unless otherwise stated. All reagents and the water shall be free of dissolved oxygen.

5.1 Water, complying with grade 3 of ISO 3696.

5.2 Glacial acetic acid, freed from oxygen by purging with a current of pure and dry inert gas (carbon dioxide or nitrogen).