



SLOVENSKI STANDARD
SIST EN ISO 734-1:2001
01-februar-2001

Oilseed residues - Determination of oil content - Part 1: Extraction method with hexane (or light petroleum) (ISO 734-1:1998)

Oilseed residues - Determination of oil content - Part 1: Extraction method with hexane (or light petroleum) (ISO 734-1:1998)

Ölsamenrückstände - Bestimmung des Ölgehaltes - Teil 1: Extraktionsverfahren mit Hexan (oder Petrolether) (ISO 734-1:1998)

Tourteaux de graines oléagineuses - Détermination de la teneur en huile - Partie 1: Méthode par extraction à l'hexane (ou à l'éther de pétrole) (ISO 734-1:1998)

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Ta slovenski standard je istoveten z: EN ISO 734-1:2000

ICS:

67.200.20 Oljnice Oilseeds

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 734-1

August 2000

ICS 67.200.20

English version

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Extraction method with hexane (or light petroleum) (ISO 734-
1:1998)

Tourteaux de graines oléagineuses - Détermination de la
teneur en huile - Partie 1: Méthode par extraction à
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Ölsamenrückstände - Bestimmung des Ölgehaltes - Teil 1:
Extraktionsverfahren mit Hexan (oder Petrolether) (ISO
734-1:1998)

This European Standard was approved by CEN on 5 August 2000.

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.

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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 Technical Committee ISO/TC 34 "Agricultural food products" of the International Organization for Standardization (ISO) has been taken over as an European Standard 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 February 2001, and conflicting national standards shall be withdrawn at the latest by February 2001.

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 734-1:1998 has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD ISO 734-1:1998
2010

INTERNATIONAL STANDARD

ISO
734-1

First edition
1998-08-15

Oilseed residues — Determination of oil content

Part 1: Extraction method with hexane (or light petroleum)

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*Tourteaux de graines oléagineuses — Détermination de la teneur en
huile*

Partie 1: Méthode par extraction à l'hexane (ou à l'éther de pétrole)

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Reference number
ISO 734-1:1998(E)

ISO 734-1:1998(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.

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.

International Standard ISO 734-1 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*, Subcommittee SC 2, *Oleaginous seeds and fruits*.

This first edition of ISO 734-1, together with ISO 734-2, cancels and replaces ISO 734:1979, which has been technically revised.

ISO 734 consists of the following parts, under the general title *Oilseed residues — Determination of oil content*.

- *Part 1: Extraction method with hexane (or light petroleum)*
- *Part 2: Rapid extraction method*

Annexes A and B of this part of ISO 734 are for information only.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

Introduction

As the determination of the "oil content" of oilseeds is carried out according to ISO 659 [1], it has been considered necessary to provide for the control of oil production by establishing a reference method for the determination of "oil content" of oilseed residues in the same way.

However, the principal users of oilseed residues, namely the manufacturers of animal feeding stuffs, carry out the determination by extraction with diethyl ether in some countries, but with *n*-hexane or light petroleum in others. The two methods do not always give the same results, and large amounts of data relating to the formulation of animal feeding stuffs are based on each of the two methods. It was therefore considered necessary to establish a separate International Standard dealing with the method using diethyl ether, and that is the subject of ISO 736 [2].

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Oilseed residues — Determination of oil content —

Part 1:

Extraction method with hexane (or light petroleum)

1 Scope

This part of ISO 734 specifies a method for the determination of the hexane extract (or light-petroleum extract), called "oil content", of residues (excluding compounded products) obtained by the extraction of oil from oilseeds by pressure or solvent.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 734. At the time of the publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 734 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 771:1977, *Oilseed residues — Determination of moisture and volatile matter content.*

ISO 5502:1992, *Oilseed residues — Preparation of test samples.*

3 Definition

For the purposes of this part of ISO 734, the following definition applies.

3.1

oil content

whole of the substances extracted under the operating conditions specified in this part of ISO 734, and expressed as a percentage by mass of the product as received

NOTE On request, the oil content may be expressed relative to dry matter.

4 Principle

Extraction of a test portion of the product in a suitable apparatus, with technical hexane or, failing this, light petroleum. Elimination of the solvent and weighing of the extract obtained.

5 Reagents

Use only reagents of recognized analytical grade, unless otherwise specified.