

SLOVENSKI STANDARD SIST EN ISO 3093:2010

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Wheat, rye and their flours, durum wheat and durum wheat semolina - Determination of the falling number according to Hagberg-Perten (ISO 3093:2009)

iTeh STANDARD PREVIEW

Weizen, Roggen und deren Mehl, Hartweizen und Hartweizengrieß - Bestimmung der Fallzahl nach Hagberg-Perten (ISO 3093:2009)

SIST EN ISO 3093:2010

Blés tendres, seigles et leurs farines, blés durs et leurs semoules Détermination de l'indice de chute selon Hagberg-Perten (ISO 3093:2009)

Ta slovenski standard je istoveten z: EN ISO 3093:2009

ICS:

67.060 žãæÉnd[}ã&nÁs,Á;![ãç[åããa Cereals, pulses and derived

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EUROPEAN STANDARD

EN ISO 3093

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2009

ICS 67.060

Supersedes EN ISO 3093:2007

English Version

Wheat, rye and their flours, durum wheat and durum wheat semolina - Determination of the falling number according to Hagberg-Perten (ISO 3093:2009)

Blés tendres, seigles et leurs farines, blés durs et leurs semoules - Détermination de l'indice de chute selon Hagberg-Perten (ISO 3093:2009) Weizen, Roggen und deren Mehl, Hartweizen und Hartweizengrieß - Bestimmung der Fallzahl nach Hagberg-Perten (ISO 3093:2009)

This European Standard was approved by CEN on 1 December 2009.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 3093:2009 (E)

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EN ISO 3093:2009 (E)

Foreword

This document (EN ISO 3093:2009) has been prepared by Technical Committee ISO/TC 34 "Food products" in collaboration with Technical Committee CEN/TC 338 "Cereal and cereal products" 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of an identical text or by endorsement, at the latest by June 2010, and conflicting national standards shall be withdrawn at the latest by June 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 3093:2007.

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

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(stan Endorsement notice)

The text of ISO 3093:2009 has been approved by CEN as a EN ISO 3093:2009 without any modification.

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INTERNATIONAL STANDARD

ISO 3093

Fourth edition 2009-12-15

Wheat, rye and their flours, durum wheat and durum wheat semolina — Determination of the falling number according to Hagberg-Perten

Blés tendres, seigles et leurs farines, blés durs et leurs semoules — Détermination de l'indice de chute selon Hagberg-Perten

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ISO 3093:2009(E)

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ISO 3093:2009(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

ISO draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning the falling number apparatus specified in 6.1.

ISO takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the ISO that he is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with the ISO. Information may be obtained from:

Perten Instruments AB
P.O. Box 5101
S-141 05 HUDDINGE https://standards.iteh.ai/catalog/standards/sist/4179e975-c2de-49ba-b777-c59978f7adfd/sist-en-iso-3093-2010

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ISO 3093 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 4, *Cereals and pulses*.

This fourth edition cancels and replaces the third edition (ISO 3093:2004), of which it constitutes a minor revision. It also incorporates the Technical Corrigendum, ISO 3093:2004/Cor.1:2008.

ISO 3093:2009(E)

Wheat, rye and their flours, durum wheat and durum wheat semolina — Determination of the falling number according to Hagberg-Perten

1 Scope

This International Standard specifies the determination of the α -amylase activity of cereals by the falling number (FN) method according to Hagberg-Perten.

This method is applicable to cereal grains, in particular to wheat and rye and their flours, durum wheat and its semolina.

This method is not applicable to the determination of low levels of α -amylase activity.

By converting the FN into a liquefaction number (LN), it is possible to use this method to estimate the composition of mixtures of grain flour or semolina with known FNs necessary to produce a sample of a required FN.

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2 Normative references

SIST EN ISO 3093:2010

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 712, Cereals and cereal products — Determination of moisture content — Reference method

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

falling number

FN

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total time required to activate a viscometer stirrer and allow it to fall a predetermined distance through an aqueous gel prepared from heating a mixture of flour or semolina, and water in a viscometer tube, and which is undergoing liquefaction due to attack by the enzyme α -amylase

NOTE 1 Time is counted from immersion in the water bath.

NOTE 2 The falling number is expressed in seconds.