



SLOVENSKI STANDARD SIST EN ISO 7971-3:2019

01-maj-2019

Nadomešča:
SIST EN ISO 7971-3:2009

**Žito - Določanje prostorninske mase, imenovane hektolitrska masa - 3. del:
Rutinska metoda (ISO 7971-3:2019)**

Cereals - Determination of bulk density, called mass per hectolitre - Part 3: Routine method (ISO 7971-3:2019)

Getreide - Bestimmung der Schüttdichte, sogenannte Masse je Hektoliter - Teil 3: Routineverfahren (ISO 7971-3:2019)

Céréales - Détermination de la masse volumique, dite masse à l'hectolitre - Partie 3: Méthode pratique (ISO 7971-3:2019)

Ta slovenski standard je istoveten z: EN ISO 7971-3:2019

ICS:

67.060	Žita, stročnice in proizvodi iz njih	Cereals, pulses and derived products
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SIST EN ISO 7971-3:2019

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EUROPEAN STANDARD

EN ISO 7971-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS 67.060

Supersedes EN ISO 7971-3:2009

English Version

Cereals - Determination of bulk density, called mass per hectolitre - Part 3: Routine method (ISO 7971-3:2019)

Céréales - Détermination de la masse volumique, dite masse à l'hectolitre - Partie 3: Méthode pratique (ISO 7971-3:2019)

Getreide - Bestimmung der Schüttdichte, sogenannte Masse je Hektoliter - Teil 3: Routineverfahren (ISO 7971-3:2019)

This European Standard was approved by CEN on 8 February 2019.

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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3

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[SIST EN ISO 7971-3:2019](https://standards.iteh.ai/catalog/standards/sist/f41b747a-59bc-4165-a53c-2c5d451dd04d/sist-en-iso-7971-3-2019)
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European foreword

This document (EN ISO 7971-3:2019) 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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

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 ISO 7971-3:2009.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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INTERNATIONAL
STANDARD

ISO
7971-3

Second edition
2019-02

**Cereals — Determination of bulk
density, called mass per hectolitre —**

**Part 3:
Routine method**

*Céréales — Détermination de la masse volumique, dite masse à
l'hectolitre —*

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Reference number
ISO 7971-3:2019(E)

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CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Principle.....	1
5 Apparatus.....	2
6 Procedure.....	2
6.1 General.....	2
6.2 Hand-operated instruments.....	2
6.3 Automatic instruments.....	3
6.4 Expression of results.....	3
7 Precision.....	3
7.1 Interlaboratory trial.....	3
7.2 Repeatability.....	3
7.3 Reproducibility.....	4
7.4 Comparison of two groups of measurements in one laboratory.....	4
7.5 Comparison of two groups of measurements in two laboratories.....	4
7.6 Uncertainty.....	4
8 Test report.....	5
Annex A (informative) Description of dimensions and use of KERN.....	6
Annex B (informative) Description of dimensions and use of Nilema litre.....	11
Annex C (informative) Results of interlaboratory tests.....	14
Bibliography.....	16

ISO 7971-3:2019(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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

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

The second edition cancels and replaces the first edition (ISO 7971-3:2009), which has been technically revised. The main changes compared with the previous edition are as follows:

- a formulae has been introduced to express the results obtained with NILEMA LITRE for wheat and barley.

A list of all parts in the ISO 7971 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Cereals — Determination of bulk density, called mass per hectolitre —

Part 3: Routine method

1 Scope

This document specifies a routine method for the determination of bulk density, called “mass per hectolitre”, of cereals as grain using manual or automatic, mechanical, electric or electronic mass per hectolitre measuring instruments.

NOTE Further details of the measuring instruments are specified in ISO 7971-2:2019, 6.4.

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.

ISO 7971-2:2019, *Cereals — Determination of bulk density, called mass per hectolitre — Part 2: Method of traceability for measuring instruments through reference to the international standard instrument*

[SIST EN ISO 7971-3:2019](https://standards.iteh.ai/catalog/standards/sist/f41b747a-59bc-4165-a53c-2c5d451dd04d/sist-en-iso-7971-3-2019)

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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 <http://www.electropedia.org/>

3.1

mass per hectolitre

bulk density

test weight

<cereals> ratio of the mass of a cereal to the volume it occupies after being poured into a container under defined manufacturer’s conditions

Note 1 to entry: Mass per hectolitre is expressed in kilograms per hectolitre of grains as received.

Note 2 to entry: Mass per hectolitre, as defined in this document, is different from “packing density” or “intrinsic density” of cereals.

[SOURCE: ISO 7971-1:2009, 2.1, modified — In the definition, “defined manufacturer’s conditions” has replaced “well-defined conditions”.]

4 Principle

The mass per hectolitre of a cereal is obtained from the mass of a volume of cereal determined under controlled sample filling and flow conditions.