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Standards

Irish Standard
I.S. EN ISO 7971-3:2009

Cereals - Determination of bulk density, called mass per hectolitre - Part 3: Routine method (ISO 7971-3:2009)

I.S. EN ISO 7971-3:2009

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English Version

Cereals - Determination of bulk density, called mass per hectolitre - Part 3: Routine method (ISO 7971-3:2009)

Céréales - Détermination de la masse volumique, dite masse à l'hectolitre - Partie 3: Méthode pratique (ISO 7971-3:2009)

Getreide - Bestimmung der Schüttdichte, sogenannte Masse je Hektoliter - Teil 3: Routineverfahren (ISO 7971-3:2009)

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Foreword

This document (EN ISO 7971-3:2009) has been prepared by Technical Committee CEN/TC 338 "Cereal and cereal products", the secretariat of which is held by AFNOR, in collaboration with Technical Committee ISO/TC 34 "Food products".

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of an identical text or by endorsement, at the latest by February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

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I.S. EN ISO 7971-3:2009
**INTERNATIONAL
STANDARD**

**ISO
7971-3**

First edition
2009-08-15

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

Part 3:
Routine method

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

Partie 3: Méthode pratique



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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 2.

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ISO 7971 (all parts) was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 338, *Cereal and cereal products*, in collaboration with Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 4, *Cereals and pulses*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

The first edition of ISO 7971-3 cancels and replaces the first edition of ISO 7971-2:1995, which has been technically revised.

ISO 7971 consists of the following parts, under the general title *Cereals — Determination of bulk density, called mass per hectolitre*:

- *Part 1: Reference method*
- *Part 2: Method of traceability for measuring instruments through reference to the international standard instrument*
- *Part 3: Routine method*

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

Part 3: Routine method

1 Scope

This part of ISO 7971 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 7971-2:2009, 6.4.

2 Normative references

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

3 Terms and definitions

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

3.1

bulk density **“mass per hectolitre”**

⟨cereals⟩ ratio of the mass of a cereal to the volume it occupies after being poured into a container under well-defined conditions

NOTE 1 Bulk density is expressed in kilograms per hectolitre of grains as received.

NOTE 2 The bulk density, as defined in this part of ISO 7971, is different from “packing density” or “intrinsic density” of cereals.

[ISO 7971-1:2009]

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.

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