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

**Part 1:
Reference method**

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

Partie 1: Méthode de référence



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Foreword

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ISO 7971-1 was prepared by Technical Committee ISO/TC 34, *Food products*, Subcommittee SC 4, *Cereals and pulses*.

This first edition of ISO 7971-1 cancels and replaces ISO 7970:1986, which has been editorially revised. The title has been changed to make it Part 1.

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: Routine method*

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

Part 1: Reference method

1 Scope

This part of ISO 7971 specifies the reference method for the determination of bulk density, called “mass per hectolitre”, of cereals.

NOTE Several routine methods are used in different countries. A routine method for the determination of bulk density, called “mass per hectolitre” utilizing a 1 litre measuring container is given in ISO 7971-2 ^[1].

2 Terms and definitions

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

2.1

mass per hectolitre

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

NOTE It is expressed in kilograms per hectolitre at a stated moisture content.

3 Principle

A sample is poured in a controlled manner from a hopper into a 20 l container, which is then weighed.

4 Requirements for apparatus

4.1 General

The apparatus used shall comply with the following requirements, which correspond to those in OIML Recommendations R 15 ^[2], and shall be similar to that shown in Figure 1.

NOTE For information, the requirements for the apparatus specified in this International Standard comply with those prescribed in the relevant Council Directive of the European Communities ^[3].

4.2 Description and operation

4.2.1 Pre-filling measure

The pre-filling measure has a capacity of 24 l. Its internal form is a right circular cylinder with height approximately equal to its diameter.