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Standards

Irish Standard  
I.S. EN ISO 6540:2010

# Maize - Determination of moisture content (on milled grains and on whole grains) (ISO 6540:1980)

## I.S. EN ISO 6540:2010

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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Údarás um Chaighdeáin Náisiúnta na hÉireann

ICS 67.060

English Version

## Maize - Determination of moisture content (on milled grains and on whole grains) (ISO 6540:1980)

Maïs - Détermination de la teneur en eau (sur grains broyés et sur grains entiers) (ISO 6540:1980)

Mais - Bestimmung des Feuchtegehalts (von gemahlene und ganzen Körnern) (ISO 6540:1980)

This European Standard was approved by CEN on 13 March 2010.

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## **Foreword**

The text of ISO 6540:1980 has been prepared by Technical Committee ISO/TC 34 "Food products" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 6540:2010 by 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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.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.

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, 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.

### **Endorsement notice**

The text of ISO 6540:1980 has been approved by CEN as a EN ISO 6540:2010 without any modification.

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# International Standard



# 6540

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## Maize — Determination of moisture content (on milled grains and on whole grains)

*Maïs — Détermination de la teneur en eau (sur grains broyés et sur grains entiers)*

First edition — 1980-11-01

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**Descriptors** : agricultural products, grains (food), maize, determination of content, water, crushing tests, test equipment.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6540 was developed by Technical Committee ISO/TC 34, *Agricultural food products*, and was circulated to the member bodies in December 1978.

It has been approved by the member bodies of the following countries :

Australia	India	Romania
Brazil	Israel	South Africa, Rep. of
Bulgaria	Kenya	Spain
Chile	Korea, Rep. of	Thailand
Cyprus	Malaysia	Turkey
Czechoslovakia	Mexico	United Kingdom
Egypt, Arab Rep. of	Netherlands	USSR
Ethiopia	New Zealand	Yugoslavia
France	Poland	
Hungary	Portugal	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Canada  
Ireland  
USA



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# Maize — Determination of moisture content (on milled grains and on whole grains)

## 0 Introduction

The basic reference method and the routine reference method relating to cereals (ISO 711 and ISO 712) are only applicable to maize with a number of amendments. This is why it has been considered advisable to reproduce the whole of these two methods, amended for application to the case of maize.

The basic reference method, for maize, which is called the absolute method in this case, requires special equipment and experienced personnel, and can only be applied in specialized laboratories.

Because of the very high moisture content which may be present in samples of maize [sometimes greater than 40 % (*m/m*)] and because of the size and texture of the grains, the determination of the moisture in maize raises problems with regard to its pre-drying and grinding.

Consequently, to allow the pre-drying and grinding to be avoided, this International Standard also describes a routine method for whole grain which is easier to use and allows working in series.

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