

Wheat flour and durum wheat semolina -  
Determination of colour by diffuse reflectance  
colorimetry (ISO 16624:2020)

## EESTI STANDARDI EESSÕNA

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See Eesti standard EVS-EN ISO 16624:2020 sisaldab Euroopa standardi EN ISO 16624:2020 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 16624:2020 consists of the English text of the European standard EN ISO 16624:2020.
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ICS 67.060

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EUROPEAN STANDARD

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English Version

Wheat flour and durum wheat semolina - Determination  
of colour by diffuse reflectance colorimetry (ISO  
16624:2020)

Farine de blé tendre et semoule de blé dur -  
Détermination de la couleur par colorimétrie par  
réflectance diffuse (ISO 16624:2020)

Weichweizenmehl und Hartweizengrieß -  
Farbbestimmung mittels diffuser  
Reflexionskolorimetrie (ISO 16624:2020)

This European Standard was approved by CEN on 15 March 2020.

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

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## European foreword

This document (EN ISO 16624:2020) 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of an identical text or by endorsement, at the latest by September 2020, and conflicting national standards shall be withdrawn at the latest by September 2020.

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.

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## Endorsement notice

The text of ISO 16624:2020 has been approved by CEN as EN ISO 16624:2020 without any modification.

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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.

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](http://www.iso.org/directives)).

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

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# Wheat flour and durum wheat semolina — Determination of colour by diffuse reflectance colorimetry

## 1 Scope

This document specifies a method for the determination of colour in durum wheat semolina and wheat flour by diffuse reflectance colorimetry.

It is applicable to industrial semolina and flour.

The method can be applicable to flour obtained from experimental mill.

## 2 Normative references

There are no normative references in this document.

## 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

#### colour metric space

expression of the colour of an object or of a light source by some parameters expressed by figures

### 3.2

#### illuminant

light source characterized by a spectral curve, where the energy relative distribution is defined in the field of wavelengths that are able to influence the object colour vision

## 4 Principle

The principle is based on the measurement of colour directly on semolina and flour by a reflectance colorimeter.

The colour of wheat milling product (semolina and flour) is due to the pigments naturally present in wheat grains. These pigments (xanthophyll's and carotenoids) are responsible for the colour visually perceived in milling products.