

**Wheat - Determination of the sedimentation index -  
Zeleny test**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 5529:2010 sisaldab Euroopa standardi EN ISO 5529:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.06.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 14.04.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 5529:2010 consists of the English text of the European standard EN ISO 5529:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.06.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 14.04.2010.

The standard is available from Estonian standardisation organisation.

ICS 67.060

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English Version

**Wheat - Determination of the sedimentation index - Zeleny test  
(ISO 5529:2007)**

Blé tendre - Détermination de l'indice de sédimentation -  
Test de Zélény (ISO 5529:2007)

Weizen - Bestimmung des Sedimentationswertes - Zeleny-  
Test (ISO 5529:2007)

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

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## Foreword

The text of ISO 5529:2007 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 5529:2010 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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

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The text of ISO 5529:2007 has been approved by CEN as a EN ISO 5529:2010 without any modification.

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# Wheat — Determination of the sedimentation index — Zeleny test

## 1 Scope

This International Standard describes a method, known as the Zeleny sedimentation test, for assessing one of the factors determining the quality of wheat as a means of predicting the baking strength of the flour which can be made from it.

The method is applicable only to *Triticum aestivum* L. wheat.

## 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 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*

ISO 648, *Laboratory glassware — One-mark pipettes*

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

## 3 Terms and definitions

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

### 3.1

#### **sedimentation index**

number indicating the volume of the sediment obtained, under the conditions specified in this International Standard, from a suspension of test flour, prepared from the wheat, in a solution of lactic acid and propan-2-ol

NOTE 1 The sedimentation index is determined by the Zeleny test.

NOTE 2 The volume is expressed in millilitres.

## 4 Principle

The measurement principle is based on the ability of the flour proteins to swell in an acid medium.

Test flour, prepared from wheat under specified grinding and sieving conditions, is suspended in a solution of lactic acid and propan-2-ol in the presence of a dye. After specified shaking and rest times, the obtained sediment volume corresponds to the sedimentation of the flour particles.