

**SLOVENSKI STANDARD  
SIST EN ISO 638-1:2021****01-september-2021****Nadomešča:  
SIST EN ISO 638:2009**

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**Papir, karton, lepenka in vlaknine ter celulozni nanomateriali - Določevanje suhe snovi - Metoda sušenja v sušilniku - 1. del: Materiali v trdni obliki (ISO 638-1:2021)**

Paper, board, pulps and cellulosic nanomaterials - Determination of dry matter content by oven-drying method - Part 1: Materials in solid form (ISO 638-1:2021)

Papier, Papp, Faserstoff und cellulosehaltige Nanomaterialien - Bestimmung des Trockengehaltes - Wärmeschrankverfahren - Teil 1: Materialien in fester Form (ISO 638-1:2021)  
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Papiers, cartons, pâtes et nanomatériaux cellulosiques - Détermination de la teneur en matières sèches par séchage à l'étuve - Partie 1: Matériaux sous forme solide (ISO 638-1:2021)

**Ta slovenski standard je istoveten z: EN ISO 638-1:2021****ICS:**

85.040	Vlaknine	Pulps
85.060	Papir, karton in lepenka	Paper and board

**SIST EN ISO 638-1:2021 en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 638-1**

May 2021

ICS 85.040; 85.060

Supersedes EN ISO 638:2008

English Version

**Paper, board, pulps and cellulosic nanomaterials -  
Determination of dry matter content by oven-drying  
method - Part 1: Materials in solid form (ISO 638-1:2021)**

Papiers, cartons, pâtes et nanomatériaux cellulosiques  
- Détermination de la teneur en matières sèches par  
séchage à l'étuve - Partie 1: Matériaux sous forme  
solide (ISO 638-1:2021)

Papier, Pappe, Faserstoff und cellulosehaltige  
Nanomaterialien - Bestimmung des Trockengehaltes -  
Wärmeschrankverfahren - Teil 1: Materialien in fester  
Form (ISO 638-1:2021)

This European Standard was approved by CEN on 6 May 2021.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN ISO 638-1:2021) has been prepared by Technical Committee ISO/TC 6 "Paper, board and pulps" in collaboration with Technical Committee CEN/TC 172 "Pulp, paper and board" the secretariat of which is held by DIN.

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 November 2021, and conflicting national standards shall be withdrawn at the latest by November 2021.

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.

This document supersedes EN ISO 638:2008.

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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 638-1:2021 has been approved by CEN as EN ISO 638-1:2021 without any modification.

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# INTERNATIONAL STANDARD

# ISO 638-1

First edition  
2021-05

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## Paper, board, pulps and cellulosic nanomaterials — Determination of dry matter content by oven-drying method —

### Part 1: Materials in solid form

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*Papiers, cartons, pâtes et nanomatériaux cellulosiques —  
Détermination de la teneur en matières sèches par séchage à  
l'étuve —*

*SIST EN ISO 638-1:2021*

*Partie 1: Matériaux sous forme solide*

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## ISO 638-1:2021(E)

### 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)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 6, *Paper, board and pulps*.

This first edition of ISO 638-1 together with ISO 638-2, cancels and replaces ISO 638:2008, which has been technically revised. The main changes compared to the previous edition are as follows:

- inclusion of cellulosic nanomaterials and paper and board for recycling in the scope;
- splitting of the standard in two parts;
- technical revision of the procedure;
- editorial revision of the document;
- update of precision clause.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

Determination of dry matter content and moisture content are carried out for different purposes.

This document is used when the dry matter content is needed to calculate the results for chemical analysis or physical testing, or to determine the moisture content of paper, board, and pulp and cellulosic nanomaterials in solid form, which all may be produced from virgin and/or recycled materials. An example of this is where the results of a chemical analysis for cadmium or manganese are required on the basis of the oven-dry mass of the sample.

ISO 638-2<sup>[1]</sup> is dedicated to the determination of the dry matter content or water content of cellulosic nanomaterials in the form of suspensions.

ISO 287<sup>[2]</sup> should be used for the purpose of determining the average moisture content and the variation in moisture content (maximum and minimum values) of a lot of paper and board. In the converting of paper and board, moisture content is important as it can have an effect on processes such as printing and copying. Moisture content can have an effect on curl and dimensional stability.

ISO 4119<sup>[3]</sup> should be used in laboratory procedures or is referred to in other International Standards in which the concentration of an aqueous pulp suspension requires determination.

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