

# SLOVENSKI STANDARD

## SIST EN ISO 638-2:2022

01-junij-2022

Nadomešča:

SIST EN ISO 638-2:2021

---

**Papir, karton, lepenka in vlaknine ter celulozni nanomateriali - Določevanje suhe snovi z metodo sušenja v sušilniku - 2. del: Suspenzije celuloznih nanomaterialov (ISO 638-2:2022)**

Paper, board, pulps and cellulosic nanomaterials - Determination of dry matter content by oven-drying method - Part 2: Suspensions of cellulosic nanomaterials (ISO 638-2:2022)

Papier, Pappe, Faserstoff und cellulosehaltige Nanomaterialien - Bestimmung des Trockengehaltes durch das Wärmeschrankverfahren - Teil 2: Suspensionen von cellulosehaltigen Nanomaterialien (ISO 638-2:2022)

Papiers, cartons, pâtes et nanomatériaux cellulosiques - Détermination de la teneur en matières sèches par séchage à l'étuve - Partie 2: Suspensions de nanomatériaux cellulosiques (ISO 638-2:2022)

**Ta slovenski standard je istoveten z: EN ISO 638-2:2022**

---

**ICS:**

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

**SIST EN ISO 638-2:2022**

**en,fr,de**

**iTeh STANDARD  
PREVIEW  
(standards.iteh.ai)**

SIST EN ISO 638-2:2022

<https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fccea/sist-en-iso-638-2-2022>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 638-2

March 2022

ICS 85.040; 85.060

Supersedes EN ISO 638-2:2021

English Version

Paper, board, pulps and cellulosic nanomaterials -  
Determination of dry matter content by oven-drying  
method - Part 2: Suspensions of cellulosic nanomaterials  
(ISO 638-2:2022)

Papiers, cartons, pâtes et nanomatériaux cellulosiques  
- Détermination de la teneur en matières sèches par  
séchage à l'étuve - Partie 2: Suspensions de  
nanomatériaux cellulosiques (ISO 638-2:2022)

Papier, Pappe, Faserstoff und cellulosehaltige  
Nanomaterialien - Bestimmung des Trockengehaltes  
durch das Wärmeschränkverfahren - Teil 2:  
Suspensionen von cellulosehaltigen Nanomaterialien  
(ISO 638-2:2022)

This European Standard was approved by CEN on 18 February 2022.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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

## Contents

Page

European foreword.....	3
------------------------	---

# iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 638-2:2022](https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fcca/sist-en-iso-638-2-2022)

<https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fcca/sist-en-iso-638-2-2022>

## European foreword

This document (EN ISO 638-2:2022) 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 September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.

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 638-2:2021.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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.

**(standards.iteh.ai)**  
**Endorsement notice**

The text of ISO 638-2:2022 has been approved by CEN as EN ISO 638-2:2022 without any modification.

SIST EN ISO 638-2:2022  
<https://standards.iteh.ai/catalog/standards/sist/d665384a-a17e-42c2-830c-413ef68fccea/sist-en-iso-638-2-2022>

**iTeh STANDARD  
PREVIEW  
(standards.iteh.ai)**

SIST EN ISO 638-2:2022

<https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fcca/sist-en-iso-638-2-2022>

# INTERNATIONAL STANDARD

**ISO**  
**638-2**

Second edition  
2022-03

---

---

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

### Part 2: Suspensions of cellulosic nanomaterials

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

*Partie 2: Suspensions de nanomatériaux cellulosiques*

[https://standards.iteh.ai/catalog/standards/sist/d665584a-  
a17e-42c2-830c-413ef68fcca/sist-en-iso-638-2-2022](https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fcca/sist-en-iso-638-2-2022)



Reference number  
ISO 638-2:2022(E)

© ISO 2022

# iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 638-2:2022](https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fccea/sist-en-iso-638-2-2022)

<https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fccea/sist-en-iso-638-2-2022>



## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland



# Contents

	Page
Foreword.....	iv
Introduction.....	v
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Principle.....	2
5 Apparatus.....	2
6 Sampling.....	3
7 Preparation of test specimens.....	3
8 Procedure.....	3
9 Calculation and expression of results.....	5
10 Precision.....	5
11 Test report.....	5
Annex A (informative) Calculation of the water content.....	6
Annex B (informative) Precision.....	7
Bibliography.....	9

**iteh STANDARD  
PREVIEW**  
(standards.iteh.ai)

SIST EN ISO 638-2:2022  
<https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fccea/sist-en-iso-638-2-2022>

## ISO 638-2:2022(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 of the voluntary nature of standards, 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 [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*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 172, *Pulp, paper and board*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 638-2:2021), of which it constitutes a minor revision. The changes are as follows:

- editorial update;
- addition of a note in [Table B.2](#).

A list of all parts in the ISO 638 series can be found on the ISO website.

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 water 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 water content of cellulosic nanomaterial suspensions.

ISO 638-1<sup>[1]</sup> is dedicated to the determination of the dry matter content or moisture content in paper, board, pulp and cellulosic nanomaterials in solid form, which all can be produced from virgin and/or recycled materials.

ISO 287<sup>[2]</sup> is 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> is used in laboratory procedures or is referred to in other International Standards in which the stock concentration of an aqueous pulp suspension requires determination.

ISO 801 (all parts)<sup>[4]</sup> specifies the determination of saleable mass in lots.

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 638-2:2022

<https://standards.iteh.ai/catalog/standards/sist/d665584a-a17e-42c2-830c-413ef68fccea/sist-en-iso-638-2-2022>