ICS 85.040, 85.060 SLOVENSKÁ TECHNICKÁ NORMA August 2022

STN	**Papier, lepenka, buničina a celulózové nanomateriály Stanovenie obsahu sušiny metódou sušenia v sušiarni Časť 2: Suspenzie celulózových nanomateriálov (ISO 638-2: 2022)**	**STN EN ISO 638-2** 50 0207

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)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/22

Obsahuje: EN ISO 638-2:2022, ISO 638-2:2022

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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 Wärmeschrankverfahren - Teil 2: Suspensionen von cellulosehaltigen Nanomaterialien (ISO 638-2:2022)

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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 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of an identical text or by endorsement, at the latest by September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.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.

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Endorsement notice

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

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

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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).

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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.

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.

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[1] 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[2] 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[3] 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)[4] specifies the determination of saleable mass in lots.

INTERNATIONAL STANDARD **ISO 638-2:2022(E)**

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

Part 2: Suspensions of cellulosic nanomaterials

1 Scope

This document specifies an oven-drying method for the determination of the dry matter content in suspensions of cellulosic nanomaterials. The procedure is applicable to cellulosic nanomaterial suspensions which do not contain any appreciable quantities of materials other than water that are volatile at the temperature of 105 °C ± 2 °C. It is used, for example, in the case of cellulosic nanomaterial suspensions samples taken for chemical and physical tests in the laboratory, when a concurrent determination of dry matter content is required.

NOTE This document determines the total dry matter content of the sample, including any dissolved solids. If only the cellulosic material content free of dissolved solids is desired, dissolved solids are removed prior to measuring the dry matter content, e.g. by washing or dialysis, taking care to retain all cellulosic material.

2 Normative references

There are no normative references in this document.