

## **Tissue paper and tissue products - Part 8: Water-absorption time and water-absorption capacity, basket- immersion test method**

Tissue paper and tissue products - Part 8: Water-absorption time and water-absorption capacity, basket- immersion test method

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 12625-8:2006 sisaldab Euroopa standardi EN ISO 12625-8:2006 + AC:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.04.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 12625-8:2006 consists of the English text of the European standard EN ISO 12625-8:2006 + AC:2006.</p> <p>This document is endorsed on 28.04.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
--	---

<p><b>Käsitlusala:</b></p> <p>This part of ISO 12625 specifies basket-immersion test methods (one manual and one automated) for the determination of water-absorption time and water-absorption capacity of absorbent tissue paper and tissue products. It is expressly stated that the detection of impurities and contraries in tissue paper and tissue products should be applied according to ISO 15755.</p>	<p><b>Scope:</b></p> <p>This part of ISO 12625 specifies basket-immersion test methods (one manual and one automated) for the determination of water-absorption time and water-absorption capacity of absorbent tissue paper and tissue products. It is expressly stated that the detection of impurities and contraries in tissue paper and tissue products should be applied according to ISO 15755.</p>
--	--

ICS 85.060

Võtmesõnad:

ICS 85.060

English Version

Tissue paper and tissue products - Part 8: Water-absorption  
time and water-absorption capacity, basket- immersion test  
method (ISO 12625-8:2006)

Papier tissue et produits tissues - Partie 8: Temps  
d'absorption d'eau et capacité d'absorption d'eau, méthode  
d'essai d'immersion au panier (ISO 12625-8:2006)

Tissue-Papier und Tissue-Produkte - Teil 8: Zeit für die  
Wasseraufnahme und Wasseraufnahmekapazität,  
Korbeintauch-Prüfverfahren (ISO 12625-8:2006)

This European Standard was approved by CEN on 14 March 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

## Foreword

This document (EN ISO 12625-8:2006) has been prepared by Technical Committee CEN/TC 172 "Pulp, paper and board", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 6 "Paper, board and pulps".

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 2006, and conflicting national standards shall be withdrawn at the latest by September 2006.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

---

---

**Tissue paper and tissue products —**

**Part 8:**

**Water-absorption time and water-  
absorption capacity, basket-immersion  
test method**

*Papier tissue et produits tissues —*

*Partie 8: Temps d'absorption d'eau et capacité d'absorption d'eau,  
méthode d'essai d'immersion au panier*



**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2006

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [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     Reagent.....	2
6     Preparation and conditioning of the test pieces .....	2
7     Manual test method .....	2
8     Automated test method.....	4
9     Calculation and expression of results.....	5
10    Test report .....	6
11    Precision .....	6
Bibliography .....	8

## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 12625-8 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 172, *Pulp, paper and board*, in collaboration with Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee 2, *Test methods and quality specifications for paper and board*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition cancels and replaces ENV 12625-8:2001, which has been technically revised.

With regard to ENV 12625-8:2001, the following changes have been made:

- a) the description of the preparation and conditioning of the test pieces was formulated more precisely;
- b) the instruction for the manual test method procedure, as well as for the automated test method procedure, were described more precisely;
- c) figures for the precision of both test methods were added;
- d) editorial updating;
- e) change of the status from ENV to ISO.

ISO 12625 consists of the following parts, under the general title *Tissue paper and tissue products*:

- *Part 1: General guidance on terms*
- *Part 3: Determination of thickness, bulking thickness and apparent bulk density*
- *Part 4: Determination of tensile strength, stretch at break and tensile energy absorption*
- *Part 5: Determination of wet tensile strength*
- *Part 6: Determination of grammage*
- *Part 7: Determination of optical properties*
- *Part 8: Water-absorption time and water-absorption capacity, basket-immersion test method*
- *Part 9: Determination of ball burst strength*



## Introduction

This part of ISO 12625 describes one principle for determination of water-absorption properties of tissue paper and tissue products, a principle in which sheets of the sample are inserted in a cylindrical basket, which is immersed in water. The results are expressed as:

- water-absorption time;
- water-absorption capacity.

In European and International trade, both water-absorption time and water-absorption capacity represent important parameters required in the field of comparison of tissue products.



# Tissue paper and tissue products —

## Part 8:

# Water-absorption time and water-absorption capacity, basket-immersion test method

## 1 Scope

This part of ISO 12625 specifies basket-immersion test methods (one manual and one automated) for the determination of water-absorption time and water-absorption capacity of absorbent tissue paper and tissue products.

It is expressly stated that the detection of impurities and contraries in tissue paper and tissue products should be applied according to ISO 15755.

For the determination of moisture content in tissue paper and tissue products, ISO 287 should be applied.

## 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 186, *Paper and board — Sampling to determine average quality*

ISO 187, *Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples*

ISO 14487, *Pulps — Standard water for physical testing*

## 3 Terms and definitions

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

### 3.1

#### **water-absorption time**

time required for complete wetting of a test piece after the start of water immersion

### 3.2

#### **water-absorption capacity**

mass of water that is absorbed per unit mass of the test piece under specified conditions