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Paper - Determination of bursting strength

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 2758:2003 sisaldab Euroopa standardi EN ISO 2758:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 26.11.2003 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 2758:2003 consists of the English text of the European standard EN ISO 2758:2003.</p> <p>This document is endorsed on 26.11.2003 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>
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<p>Käsitlusala: This International Standard specifies a method for measuring the bursting strength of paper submitted to increasing hydraulic pressure</p>	<p>Scope: This International Standard specifies a method for measuring the bursting strength of paper submitted to increasing hydraulic pressure</p>
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ICS 85.060

Võtmesõnad: bursting strength, determination, materials testing, paper

ICS 85.060

English version

Paper

Determination of bursting strength
(ISO 2758 : 2001)

Papier – Détermination de la résistance
à l'éclatement (ISO 2758 : 2001)

Papier – Bestimmung der Berstfestig-
keit (ISO 2758 : 2001)

This European Standard was approved by CEN on 2003-06-26.

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 Management Centre or to any CEN member.

The European Standards exist 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 Management Centre has the same status as the official versions.

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

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

International Standard

ISO 2758 : 2001 Paper – Determination of bursting strength, which was prepared by ISO/TC 6 'Paper, board and pulp' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 172 'Pulp, paper and board', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by January 2004 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 2758 : 2001 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

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Introduction

This International Standard is applicable to papers with bursting strengths in the range 70 kPa to 1 400 kPa.

For materials with bursting strengths equal to or greater than 350 kPa (or 250 kPa for the components of combined materials), an alternative method, based on similar principles, is specified in ISO 2759. All components of solid and corrugated fibreboard, irrespective of bursting strength, should be tested according to ISO 2759.

In view of the overlap between the method for testing papers and boards and in the absence of any commercial agreement, materials below 600 kPa should be tested according to this International Standard.

NOTE Due to differences in the specification of the apparatus, tests made on the same material using the procedures of ISO 2759 and this International Standard will not necessarily give the same results.

1 Scope

This International Standard specifies a method for measuring the bursting strength of paper submitted to increasing hydraulic pressure. It is applicable to paper having bursting strengths within the range 70 kPa to 1 400 kPa. It is not intended to be used for the components (such as fluting medium or linerboard) of a combined board, for which the method given in ISO 2759 is more suitable.

In the absence of any commercial agreement as to which method should be used for testing the material, materials with bursting strengths below 600 kPa should be tested according to this International Standard.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 186:—¹⁾, *Paper and board — Sampling to determine average quality.*

ISO 187:1990, *Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples.*

ISO 536:1995, *Paper and board — Determination of grammage.*

3 Terms and definitions

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

3.1

bursting strength

maximum pressure developed by the hydraulic system in forcing an elastic diaphragm through a circular area of the paper when the pressure is applied in the manner described in the method.

NOTE The indicated bursting pressure includes the pressure required to extend the diaphragm during the test.

3.2

burst index

bursting strength of paper, in kilopascals, divided by the grammage of the paper determined in accordance with ISO 536

1) To be published. (Revision of ISO 186:1994)