

Tissue paper and tissue products - Part 3: Determination of thickness, bulking thickness and apparent bulk density and bulk (ISO 12625-3:2014)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 02.04.2014.	Date of Availability of the European standard is 02.04.2014.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 85.060

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English Version

**Tissue paper and tissue products - Part 3: Determination of
thickness, bulking thickness and apparent bulk density and bulk
(ISO 12625-3:2014)**

Papier tissue et produits tissue - Partie 3: Détermination de
l'épaisseur, de l'épaisseur moyenne d'une feuille en liasse
et de la masse volumique moyenne et de la main (ISO
12625-3:2014)

Tissue-Papier und Tissue-Produkte - Teil 3: Bestimmung
der Dicke, der Blattdicke im Stapel, der scheinbaren
Stapeldichte und des spezifischen Volumens (ISO 12625-
3:2014)

This European Standard was approved by CEN on 15 February 2014.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 12625-3:2014) has been prepared by Technical Committee ISO/TC 6 "Paper, board and pulps" in collaboration with Technical Committee EN ISO 12625-3:2014 by 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of an identical text or by endorsement, at the latest by October 2014, and conflicting national standards shall be withdrawn at the latest by October 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 12625-3:2005.

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Endorsement notice

The text of ISO 12625-3:2014 has been approved by CEN as EN ISO 12625-3:2014 without any modification.

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Introduction

Thickness is an important property of tissue paper and tissue products.

In the tissue industry, thickness-related parameters, such as the roll diameter of rolled products (kitchen towel) or the stack height of folded products (paper towels) are often measured. However, the fact that not only end-use tissue products, but also the base tissue paper from which these products are made, is the subject of trade between companies and countries, means that there is a genuine need for a consistent measure of thickness that can be applied to tissue products at any stage of their manufacture.

The thickness of tissue paper and tissue products is known to be dependent on the pressure applied to the material at the time of measurement. Several different loading pressures, pressure-foot diameters and loading speeds have been used within the tissue industry. This part of ISO 12625 has been prepared by harmonizing those standards applicable to tissue and tissue products currently in use. It specifies a single loading pressure, foot diameter and loading speed to be used for all thickness measurements of tissue 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 or ISO 638 should be applied.

Tissue paper and tissue products —

Part 3:

Determination of thickness, bulking thickness and apparent bulk density and bulk

1 Scope

This part of ISO 12625 specifies a test method for the determination of thickness and bulking thickness and the calculation of apparent bulk density and bulk of tissue papers and tissue products under a pressure of 2,0 kPa.

NOTE This part of ISO 12625 has been developed to provide a consistent test method for the determination of thickness and density of tissue paper and tissue products. Corresponding test methods for paper and board in general are covered in ISO 534.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 12625-1, *Tissue paper and tissue products — Part 1: General guidance on terms*

ISO 12625-6, *Tissue paper and tissue products — Part 6: Determination of grammage*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12625-1 and the following apply.

3.1

single-ply thickness

distance between the two principal surfaces of a single ply of tissue paper measured under the applied static load specified in this part of ISO 12625

Note 1 to entry: A 'ply' of tissue is an unlaminated tissue, like that made directly from a tissue machine.

3.2

single sheet thickness

distance between the two principal surfaces of a single sheet of tissue product measured under the applied static load specified in this part of ISO 12625

Note 1 to entry: A 'sheet' of tissue is a laminated or unlaminated tissue like that present in the finished tissue product.