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Second edition
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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*



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Foreword

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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 SC 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 second edition cancels and replaces the first edition (ISO 12625-8:2006), which has been technically revised.

The essential change in this International Standard is the separation of the so-called “manual method” and the excluding of the “automated method”. For more details see the Introduction.

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

- *Part 1: General principles for the use of 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 — Measurement of brightness and colour*
- *Part 8: Water-absorption time and water-absorption capacity, basket-immersion test method*
- *Part 9: Determination of ball burst strength*
- *Part 12: Determination of tensile strength of perforated lines — Calculation of perforation efficiency*

Introduction

This part of ISO 12625 describes one principle for the 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, and
- water-absorption capacity.

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

Both manual and automated methods exist, but the procedure described in this part of ISO 12625 refers to manual devices only. The reason is that precision results obtained with the different automatic methods included in an interlaboratory study were not acceptable compared with the results obtained using the manual testing method.

Nevertheless, automated test methods may be used, provided that they can be shown to give the same results as the manual method, in terms of average values and standard deviations.