

SLOVENSKI STANDARD oSIST ISO 5636-5:2011

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Papir, karton in lepenka - Določanje prepustnosti zraka (srednje območje) - 5. del: Gurleyjeva metoda

Paper and board -- Determination of air permeance and air resistance (medium range) -- Part 5: Gurley method

Papier et carton -- Détermination de la perméabilité à l'air et de la résistance à l'air (valeur moyenne) -- Partie 5: Méthode Gurley

Ta slovenski standard je istoveten z: ISO 5636-5:2003

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Paper and board

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INTERNATIONAL STANDARD

ISO 5636-5

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Paper and board — Determination of air permeance and air resistance (medium range) —

Part 5: Gurley method

Papier et carton — Détermination de la perméabilité à l'air et de la résistance à l'air (valeur moyenne) —

Partie 5: Méthode Gurley



Reference number ISO 5636-5:2003(E)

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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.

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 5636-5 was prepared by Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*.

This second edition cancels and replaces the first edition (ISO 5636-5:1986), which has been technically revised.

In this edition, the factor to be used for the calculation of air permeance (10.1) has been changed to 135,3 (from calculation factor 127 in the first edition). The new factor for calculation of air permeance will cause an increase in the level of the result of approximately 7 %. To avoid confusion in trade due to the fact that some laboratories are not aware of this new edition and thus will still use the factor 127, it is important to report the calculation factor used.

ISO 5636 consists of the following parts, under the general title *Paper and board* — *Determination of air permeance and air resistance (medium range)*:

- Part 1: General method
- Part 2: Schopper method
- Part 3: Bendtsen method
- Part 4: Sheffield method
- Part 5: Gurley method

Introduction

This part of ISO 5636 describes a method for measuring the air permeance or, if required, the air resistance of paper and board using the measurement principle known as "Gurley". The air pressure within the cylinder varies slightly according to the displacement of the cylinder, but it has been shown that the variation is about 1,2 % of the mean pressure for 100 ml of displacement and about 4 % for a cylinder with a displacement of 400 ml. Because these variations are within the 5 % limit specified in ISO 5636-1, the apparatus complies with the general requirements detailed in ISO 5636-1 and the air-permeance results may be expressed in micrometres per pascal second [μ m/(Pa·s)].

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