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NSAI Standards

Irish Standard
I.S. EN ISO 287:2009

Paper and board - Determination of moisture content of a lot - Oven-drying method (ISO 287:2009)

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EUROPEAN STANDARD

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EN ISO 287

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Supersedes EN 20287:1994

English Version

Paper and board - Determination of moisture content of a lot - Oven-drying method (ISO 287:2009)

Papier et carton - Détermination de la teneur en humidité d'un lot - Méthode par séchage à l'étuve (ISO 287:2009)

Papier und Pappe - Bestimmung des Feuchtegehaltes eines Lieferpostens - Wärmeschrankverfahren (ISO 287:2009)

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Foreword

This document (EN ISO 287:2009) has been prepared by Technical Committee ISO/TC 6 "Paper, board and pulps" in collaboration with 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of an identical text or by endorsement, at the latest by December 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

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INTERNATIONAL STANDARD

ISO 287

Third edition
2009-06-01

Paper and board — Determination of moisture content of a lot — Oven-drying method

Papier et carton — Détermination de la teneur en humidité d'un lot — Méthode par séchage à l'étuve

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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.

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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.

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ISO 287 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 third edition cancels and replaces the second edition (ISO 287:1985), which has been technically revised. The title has been elucidated so that it can be seen from the title that the method is intended for determination of the moisture content of a lot at the time of sampling.

For determinations of the dry matter content of a sample of paper or board, e.g. for calculation of the dry mass of the sample, ISO 638 [1] is recommended.

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Introduction

The determination of dry matter content and moisture content are carried out for different purposes.

ISO 638 [1] is used in cases where the dry matter content is needed to calculate the result of chemical analysis or physical testing and when the determination of the moisture content of a sample, rather than a lot, is required. As an example, the dry matter content of the sample is needed to express the content of elements, such as cadmium and manganese, in relation to the oven-dry mass of the sample.

This International Standard is used for the purpose of determining the average moisture content and the variation in moisture content (maximum and minimum values) of a lot. In the paper and board trade, the moisture content is important since it influences converting processes, such as printing and copying. The moisture content also has an influence on curl and dimensional stability.

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Paper and board — Determination of moisture content of a lot — Oven-drying method

1 Scope

This International Standard specifies an oven-drying method for the determination of the moisture content of a lot of paper and board. The procedure in Clause 8, describing how the test pieces are drawn from the lot, is performed at the time of sampling.

This International Standard is applicable to every type of lot of paper and board, including corrugated board and solid board, provided that the paper or board does not contain any substances, other than water, that are volatile at the temperature specified in this International Standard.

For the determination of the dry matter content of a sample, ISO 638 [1] can be used.

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*

3 Terms and definitions

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

3.1
moisture content
w_{H_2O}
content of water in paper or board, i.e. the ratio of the loss of mass of a test piece, when dried according to the procedure described in this International Standard, to its mass at the time of sampling

NOTE The moisture content is normally expressed as a percentage mass fraction.

3.2
constant mass
mass reached by a test piece of paper or board after drying at a temperature of (105 ± 2) °C until the difference between two successive dryings and weighings, separated in time by at least half the initial drying period, does not exceed 0,1 % of the initial mass of the test piece at the time of sampling

4 Principle

At the time of sampling, weighing of test pieces taken from a lot and weighing the test pieces again after drying to constant mass. From the mass of a test piece before and after drying, the moisture content is calculated.

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