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EUROPEAN STANDARD

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NORME EUROPÉENNE

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Descriptors: see ISO document

English version

**Pulps - Determination of saleable mass in lots -
Part 1: Pulp baled in sheet form (ISO 801-1:1994)**

Pâtes - Détermination de la masse marchande des
lots - Partie 1: Balles de pâtes en feuilles
(ISO 801-1:1994)

Zellstoffe - Bestimmung des Handelsgewichtes
von Lieferposten - Teil 1: Zellstoffbogen in
Ballen (ISO 801-1:1994)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat 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 Central Secretariat has the same status as the official versions.

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CEN

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2
EN ISO 801-1:1996

Foreword

The text of the International Standard from Technical Committee ISO/TC 6 "Paper, board and pulps" of the International Organization for Standardization (ISO) has been taken over as an European Standard 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of an identical text or by endorsement, at the latest by March 1997, and conflicting national standards shall be withdrawn at the latest by March 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 801-1:1994 has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

ISO
801-1

Second edition
1994-08-01

Pulps — Determination of saleable mass in lots —

Part 1:

Pulp baled in sheet form

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Pâtes — Détermination de la masse marchande des lots —

Partie 1: Balles de pâte en feuilles

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Reference number
ISO 801-1:1994(E)

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.

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.

International Standard ISO 801-1 was prepared by Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 5, *Test methods and quality specifications for pulp*.

This second edition cancels and replaces the first edition (ISO 801-1:1979), of which it constitutes a technical revision.

ISO 801 consists of the following parts, under the general title *Pulps — Determination of saleable mass in lots*:

- Part 1: *Pulp baled in sheet form*
- Part 2: *Pulps (such as flash-dried pulps) baled in slabs*
- Part 3: *Unitized bales*

Annexes A and B of this part of ISO 801 are for information only.

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Pulps — Determination of saleable mass in lots —

Part 1:

Pulp baled in sheet form

1 Scope

This part of ISO 801 specifies a method for determining the dryness of a lot of pulp baled in sheet form and for calculating its saleable mass.

This method is applicable to all kinds of pulp baled in sheet form. It does not apply to pulp baled in lots in slab form or to pulp baled in unitized lots.

An example of a full certificate of analysis and related calculations is given in annex A. Annex B gives details of equipment for marking the position of specimen sheets in sample bales.

2 Definitions

For the purposes of this part of ISO 801, the following definitions apply.

2.1 lot: The total number of bales of the same sort of pulp of specific characteristics.

The number of bales comprising a lot is indicated by the invoice or by agreement between the interested parties.

A lot of bales of pulp is said to be "with specification" if it is accompanied by a certificate of origin stating for each bale either

— its gross mass (2.2) and its absolute dryness (2.4),

or

— its saleable mass (2.7).

2.2 gross mass: The total mass of a bale, a part of a lot or a lot comprising

— contents;

— wrappers (pulp — paper);

— packaging wires or strappings.

2.3 oven-dry mass: The mass obtained on drying pulp at $105\text{ °C} \pm 2\text{ °C}$, until constant mass is reached.

2.4 absolute dryness: The ratio of the oven-dry mass (2.3) of the pulp to its initial mass, expressed as a percentage.

2.5 air-dry mass: The mass of the pulp when its moisture content is in equilibrium with the ambient atmosphere.

2.6 theoretical commercial dryness: A conventional equilibrium value of 88 % or 90 % according to the country and/or commercial agreements.¹⁾

2.7 saleable mass: The gross mass (2.2) multiplied by the absolute dryness (2.4) divided by the theoretical commercial dryness (2.6). Usually, it approximates to the air-dry mass (2.5).

2.8 invoiced mass: The saleable mass (2.7) indicated by the vendor on the invoice.

1) If the air dryness is 90 %, the pulp contains 90 parts by mass of absolutely dry fibres and 10 parts by mass of water. For an air dryness of 88 %, the corresponding figures are 88 and 12.

3 Principle

From the lot, sample bales are taken in number which is a function of the total number of bales in the complete lot and in accordance with a sliding scale. These sample bales are weighed²⁾ and collected in groups of six bales.

Five specimen sheets are selected from each sample bale under defined conditions.

From each specimen sheet, a test piece is cut in the form of a triangle, as indicated in clause 6.

The test pieces are weighed and dried to constant mass to determine their oven-dry mass (2.3).

The saleable mass (2.7) of the lot is then calculated.

4 Apparatus

4.1 Scale, suitable for weighing the bales to an accuracy of at least 1/1 000.

4.2 Balance, suitable for weighing the test pieces to an accuracy of at least 1/5 000. The balance shall have a capacity of at least 5 kg and a sensitivity of 0,1 g. Its weighing pan (or weighing table) shall be wide enough to accommodate the test pieces so that they do not protrude outside the rim of the pan.

NOTE 1 As the test pieces are weighed when still hot, they cause an upstream flow of air around the weighing pan and, in consequence, a negative error in the balance reading. This error is minimized if the pan is wide enough so that no part of the test pieces protrudes outside the rim of the pan.

4.3 Equipment, for marking the position of the specimen sheets to be selected (see annex B) and the test pieces in these sheets, as well as for cutting them.

4.4 Equipment, for storing at least 30 test pieces to prevent them from gaining or losing mass before weighing.

4.5 Drying oven, with good ventilation, and capable of being controlled at $105\text{ °C} \pm 2\text{ °C}$.

2) The mean of the gross mass of the sample bales is considered as being the mean of the gross mass of all the bales in the lot.

5 Sample bales

All the sample bales shall be representative of the lot and for this purpose, so far as possible, these bales should be selected at random from all parts of the lot. In the absence of any other agreement between the interested parties, the available part of the lot to be examined shall be not less than half the complete lot at the time of examination.

If the bales have identification numbers relating to several series, the sample bales shall be selected as far as possible in proportion to the size of each of these series.

The sample bales shall be intact and damaged as little as possible, and shall not include

- bales showing signs of definite drying or wetting, as may happen with bales situated on the external faces of a stack;

- bales or wrappings of bales having deteriorated, or showing clear signs of accidental localized wetting or loss;

- bales carrying traces of previous sampling;

- bales whose number is illegible or is not contained in the specification, if this is a lot specified bale by bale.

The number of sample bales to be taken is given in table 1.

Above 5 000, the minimum number to be taken is 100 plus 1 % of the bales in excess of 5 000, the maximum number being 200 plus 1 % of the bales in excess of 5 000. In all cases, the total number of sample bales shall be a multiple of 6.

When the lot is relatively uniform, and the number of bales rejected (exclusive of bales from the outer faces of the stack) does not exceed 10 % of the minimum number of bales to be selected (see table 1), then the minimum number shall be taken. Otherwise, the analyst shall decide, within the limits set in table 1, the number of bales to be selected.

For frozen pulp, the sampling shall be postponed until the bales have thawed, so that satisfactory test pieces can be cut from the sheets.

