



BSI Standards Publication

Packed cork — Virgin cork, raw reproduction cork, ramassage, gleanings, burnt cork, boiled reproduction cork and raw corkwaste — Determination of moisture content

National foreword

This British Standard is the UK implementation of ISO 2386:2015.

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**Packed cork — Virgin cork, raw
reproduction cork, ramassage,
gleanings, burnt cork, boiled
reproduction cork and raw corkwaste
— Determination of moisture content**

*Liège emballé — Liège mâle, liège de reproduction cru, liège de
ramassage, liège gisant, liège flambé, liège de reproduction bouilli et
rebut — Détermination de l'humidité*



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Foreword

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The committee responsible for this document is ISO/TC 87, *Cork*.

This fourth edition cancels and replaces the third edition (ISO 2386:1998), of which it constitutes a minor revision. Minor editorial details have been introduced in this edition.

Packed cork — Virgin cork, raw reproduction cork, ramassage, gleanings, burnt cork, boiled reproduction cork and raw corkwaste — Determination of moisture content

1 Scope

This International Standard specifies a method for determination of the moisture content of packed cork, either virgin cork, raw reproduction cork, ramassage, gleanings, burnt cork, boiled reproduction cork or raw corkwaste.

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 633, *Cork — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions in ISO 633 and the following apply.

3.1

moisture content

loss of mass of a test specimen after drying under specific conditions, compared to the initial mass of the test specimen

4 Principle

Determination of the mass of a test specimen, drying and re-determination of its mass, then calculation of the loss of mass in percentage, referred to the initial one.

5 Apparatus

Ordinary laboratory equipment and, in particular, the following.

5.1 Balance, with a resolution of at least 0,5 g.

5.2 Drying oven, ventilated, and set at (103 ± 2) °C.

5.3 Open containers (dried), of adequate capacity to hold the test specimens.

To dry the containers, place them in the oven at (103 ± 2) °C for 30 min. After that, let them cool during 30 min in the desiccator.

5.4 Desiccators, of adequate capacity to hold the containers, and containing an efficient desiccant (e.g. silica gel or calcium chloride).

6 Procedure

6.1 Test sample

From the laboratory sample, take at random three test specimens of mass about 400 g each.

6.2 Determination

Determine the mass of each container (m_1).

Place each test specimen in a container and determine the mass of each set (m_2).

Put the sets in the oven (5.2) set at (103 ± 2) °C, for at least 1 h. Then place them in the desiccator (5.4) and let them cool for at least 30 min. Then determine the mass of each set.

Repeat the procedure described above until constant mass (i.e. until two consecutive weighings of each set do not differ by more than 0,5 g) (m_3).

To accelerate the test, it is advisable that the first drying lasts for at least 3 h.

7 Results

7.1 Calculation

The moisture content of each test specimen, referred to the initial mass (before drying) and expressed as a percentage is given by the formula:

$$\frac{m_2 - m_3}{m_2 - m_1} \times 100$$

where

m_1 is the mass of the container, in grams rounded off to the nearest 0,5;

m_2 is the mass of the container and test specimen (set) before drying, in grams rounded off to the nearest 0,5;

m_3 is the mass of the container and test specimen (set) after drying, in grams rounded off to the nearest 0,5.

7.2 Expression of results

Take as the moisture content of the lot of corkwood, the average, rounded off to the nearest integer, of the results obtained for each test specimen.

8 Test report

The test report shall include the following particulars:

- a) all details required to identify the sample;
- b) the result obtained, in accordance with [Clause 7](#);
- c) reference to this International Standard;
- d) all operating details not specified in this International Standard;
- e) details of any incidents which may have influenced the results.

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