
**Cylindrical cork stoppers — Physical
tests —**

Part 1:
Determination of dimensions

*Bouchons cylindriques en liège — Essais physiques —
Partie 1: Détermination des dimensions*

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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 9727-1 was prepared by Technical Committee ISO/TC 87, Cork.

This first edition of ISO 9727-1, together with the other parts of ISO 9727:2007, cancels and replaces ISO 9727:1991, which has been technically revised.

ISO 9727 consists of the following parts, under the general title *Cylindrical cork stoppers — Physical tests*:

- *Part 1: Determination of dimensions*
- *Part 2: Determination of mass and apparent density for agglomerated cork stoppers*
- *Part 3: Determination of humidity content*
- *Part 4: Determination of dimensional recovery after compression*
- *Part 5: Determination of extraction force*
- *Part 6: Determination of liquid tightness*
- *Part 7: Determination of dust content*

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Cylindrical cork stoppers — Physical tests —

Part 1: Determination of dimensions

1 Scope

This part of ISO 9727 specifies a test method for determining the dimensions of cylindrical cork stoppers, namely diameter, length and, in some cases, ovalisation.

It is applicable to all types of cylindrical cork stoppers as defined in ISO 633, ready for use or semi-worked.

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 633, *Cork — Vocabulary*

3 Terms and definitions

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

3.1

ovalisation

⟨natural cork stoppers⟩ difference between measurements of diameter carried out along the perpendicular and along the parallel to the cork growth layer

4 Apparatus

4.1 **Vernier gauge**, with a constant contact force and a maximum resolution of 0,05 mm, or any other device allowing the same precision to be reached.

5 Test conditions

5.1 Environment

The test shall be carried out in an environment with the following characteristics:

- temperature 21 °C ± 4 °C;
- relative humidity of air 60 % ± 20 %.

5.2 Cork stoppers

5.2.1 Temperature

At the beginning of the test, confirm that the stoppers of the test sample are at a temperature of $21\text{ }^{\circ}\text{C} \pm 4\text{ }^{\circ}\text{C}$.

5.2.2 Humidity

At the beginning of the test, confirm that the stoppers of the test sample are at a humidity of $6\% \pm 2\%$.

When the humidity is not between 4 % and 8 %, the result of the humidity obtained shall be referred to in the test report.

6 Sampling

From each lot, take the amount of stoppers that correspond to the sampling plan previously agreed between the interested parties.

Stoppers from the sample shall not show visible defects that may interfere with the performance of the measurement, namely:

- stoppers with an abnormal shape (asymmetric, truncated, bevel);
- stoppers with gutters or belly irregularities.

7 Procedure

Before testing, each stopper shall be numerated.

7.1 Determination of diameter

7.1.1 Natural corkwood stoppers

On each stopper of the test sample and using the vernier gauge or any other device allowing the same precision (4.1) to be reached, measure the diameter at half the distance between ends and following the parallel to the growth layers of cork, in millimetres. Register the value obtained. Repeat the procedure following the perpendicular to the growth layers of cork, in millimetres. Register the value obtained.

7.1.2 Agglomerated cork stoppers and stoppers "1+1" (a disc on each end)

On each stopper of the test sample and using the vernier gauge or any other device allowing the same precision (4.1) to be reached, measure the diameter at half the distance between ends, in millimetres. Register the value obtained (only one measurement per stopper).

7.1.3 Agglomerated cork stoppers with one or several discs on the same end

On each stopper of the test sample and using the vernier gauge or any other device allowing the same precision (4.1) to be reached, measure the diameter, in millimetres, at the limit line between the agglomerated body and disc(s), at the glued surface. Register the value obtained (only one measurement per stopper).

7.2 Determination of length

On each stopper of the test sample and using the vernier gauge or any other device allowing the same precision (4.1) to be reached, measure the length, in millimetres. Carry out the measurement by introducing the stopper between stands of the vernier gauge, in such a way that the central axis of the stopper goes through the stand of the vernier gauge. Register the value obtained.