
Granulated cork — Size analysis by mechanical sieving

*Granulés de liège — Analyse granulométrique par tamisage
mécanique*

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 87, *Cork*.

This third edition cancels and replaces the second edition (ISO 2030:1990), of which it constitutes a minor revision. Minor editorial details have been introduced in this edition.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Granulated cork — Size analysis by mechanical sieving

1 Scope

This document specifies a method to obtain granule size distribution of granulated cork by mechanical sieving.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2067, *Granulated cork — Sampling*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>

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4 Principle

Mechanical sieving of a test portion in specified conditions. Weighing of each portion of sieved material.

5 Apparatus

5.1 Screening column, comprising:

5.1.1 Cover, which shall fit the sieves perfectly (see [5.1.2](#) and [5.1.3](#)).

5.1.2 Sequence of sieves, whose mesh apertures conform to the series ISO/R 40/3 (see ISO 565). The first sieve corresponds to the dimension just higher than the maximum wanted, the next to the last corresponds to the dimension just lower than the minimum wanted and the last corresponds to the dimension of the powder.

5.1.3 Base, which shall fit the sieves perfectly (see [5.1.2](#)).

5.1.4 Vibrator, capable of producing 300 vertical vibrations of an amplitude of 5 mm/min and having a rotating speed of 1 r/min.

5.1.5 Balance, accuracy 0,1 g.

6 Sampling

Sampling shall be carried out in accordance with ISO 2067.

7 Procedure

7.1 Test portion

Take at random, from the sample, three test portions of about 50 g each, for the granulated cork with bulk density equal to or lower than 60 kg/m³, or of about 100 g each, for the granulated cork with bulk density higher than 60 kg/m³. Weigh the test portions.

7.2 Determination

Fit together the screening column (5.1), lift the cover (5.1.1), place a test portion (7.1) in the upper sieve (5.1.2) of the column and replace the cover. Place the screening column on the vibrator (5.1.4) and let the latter run for a period of between 9 min and 11 min. Then weigh (5.1.5) the quantities of granulated cork held in each sieve (5.1.2) as well as the quantity gathered at the base (5.1.3) on the balance.

Carry out three tests, each time with a different test portion.

8 Expression of results

8.1 The mass of the granulated cork, as a percentage, held by the sieve, *i*, is given by [Formula \(1\)](#):

$$\frac{m_i}{m_0} \times 100 \quad (1)$$

where

m_i is the mass, in grams, of granulated cork held by the sieve, *i*;

m₀ is the mass, in grams, of the test portion.

8.2 The mass of cork powder, as a percentage, is given by [Formula \(2\)](#)

$$\frac{m_f}{m_0} \times 100 \quad (2)$$

where

m_f is the mass, in grams, of the powder gathered at the base;

m₀ is as in [8.1](#).

8.3 Express the results as the arithmetic means of the values arrived at for three test samples, rounding them off to the nearest integer.

9 Test report

The test report shall include the following information:

- complete identification of the sample;
- the results obtained;
- a reference to this document, i.e. ISO 2030:2018;
- any operational details not specified in this document, or regarded as optional;
- any occurrences that may have affected the results.

Bibliography

- [1] ISO 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*
- [2] ISO 1997, *Granulated cork and cork powder — Classification, properties and packing*

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