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Cork — Granulated cork — Size analysis by mechanical sieving

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 87 has reviewed ISO Recommendation R 2030 and found it technically suitable for transformation. International Standard ISO 2030 therefore replaces ISO Recommendation R 2030-1971 to which it is technically identical.

ISO Recommendation R 2030 was approved by the Member Bodies of the following countries :

Bulgaria	Greece	South Africa, Rep. of
Czechoslovakia	Iran	Spain
Egypt, Arab Rep. of	Italy	United Kingdom
France	Portugal	

No Member Body expressed disapproval of the Recommendation.

No Member Body disapproved the transformation of ISO/R 2030 into an International Standard.

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Cork — Granulated cork — Size analysis by mechanical sieving

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method for the determination of granule size distribution of granulated cork.

2 REFERENCES

ISO 1997, *Granulated cork and cork powder — Specifications.*

ISO 2067, *Granulated cork — Sampling.*

3 PRINCIPLE

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

4 APPARATUS

4.1 Screening column, comprising :

4.1.1 Cover, which shall fit the sieves perfectly (see 4.1.2 and 4.1.3).

4.1.2 Four sieves, diameter 200 mm, having mesh apertures corresponding to the largest size, the medium size and the smallest size of the class of granulated cork being tested and to the powder (250 μm) (see ISO 1997).

NOTE — The mesh apertures shall conform to those specified in ISO 565, *Test sieves — Woven metal wire cloth and perforated plate — Nominal sizes of apertures.*

4.1.3 Base, which shall fit the sieves perfectly (see 4.1.2).

4.2 Vibrator, capable of producing 300 vertical vibrations of 5 mm amplitude per minute and having a rotating speed of 1 rev/min.

4.3 Balance, accuracy 0,1 g, capacity 2 000 g.

5 SAMPLING

Sampling shall be carried out in accordance with ISO 2067.

6 PROCEDURE

6.1 Preparation of the laboratory sample

Condition the sample for 24 h in an oven at a temperature of 20 ± 2 °C and a relative humidity of 65 ± 5 %.

6.2 Test portion

From the laboratory sample, take three test portions of 25 g each at random from the sample and weigh them on the balance (4.3).

6.3 Determination

Fit together the screening column (4.1), lift the cover (4.1.1), place a test portion in the upper sieve (4.1.2) of the column and replace the cover. Place the screening column on the vibrator (4.2) and let the latter run for 5 min; then weigh on the balance (4.3) the quantities of granulated cork held in each sieve (4.1.2) as well as the quantity gathered at the base (4.1.3).

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

7 EXPRESSION OF RESULTS

7.1 The percentage by mass of the granulated cork held by the sieves are given, respectively, by the formulae

$$\frac{m_1}{m_0} \times 100 \qquad \frac{m_2}{m_0} \times 100 \qquad \frac{m_3}{m_0} \times 100$$

where

m_0 is the mass, in grams, of the test portion;

m_1, m_2 and m_3 are the masses, in grams, of granulated cork held by the three upper sieves.

7.2 The percentage by mass of cork powder is given by the formula

$$\frac{m_4}{m_0} \times 100$$

where

m_0 is as in 7.1;

m_4 is the mass, in grams, of the powder gathered at the base.