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Granulated cork and cork powder — Specifications

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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.

International Standard ISO 1997 was drawn up by Technical Committee ISO/TC 87, *Cork*.

It was approved in November 1970 by the Member Bodies of the following countries:

Bulgaria	Iran	Spain
Czechoslovakia	Italy	U.A.R.
France	Portugal	United Kingdom
Greece	South Africa, Rep. of	

[ISO 1997:1972](https://standards.iteh.ai/catalog/standards/sist/7be5ef17-a249-4813-8bc8-91c0f8052c/iso-1997-1972)

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No Member Body opposed the approval of the Draft.

Granulated cork and cork powder – Specifications

0 INTRODUCTION

The use of granulated cork which has been packed and transported in pressed bales presents some problems for the ultimate user, particularly with regard to bringing its apparent density back to pre-pressing level. These problems are at present under study and the characteristics of granulated cork as given in this International Standard apply therefore only to the product before compression.

Pending the results of that study, the attention of suppliers is drawn to the necessity of avoiding too high a rate of compression, which might considerably affect the characteristics of the granulated cork as available to the ultimate user.

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the classification and properties of granulated cork and cork powder before pressing, as well as the methods of packing.

2 REFERENCES

ISO/R 565, *Woven wire cloth and perforated plates in test sieves – Nominal sizes of apertures.*

ISO/R 2030, *Granulated cork – Granule size test.*

ISO 2031, *Granulated cork – Bulk density test.*

ISO/R 2067, *Granulated cork – Sampling.*

ISO 2190, *Granulated cork – Determination of moisture content.*

3 DEFINITIONS

3.1 granulated cork : Fragments of various dimensions obtained by grinding and/or milling raw cork, manufactured cork, or simple cut pieces.

3.2 cork powder : Cork particles of a grain size equal to or less than 0,25 mm.

4 CLASSIFICATION

Granulated cork is classified in forty categories according to the size of the granules and their bulk density.

4.1 Classification by grain size

Granulated cork is divided into eight *classes* by grain size, as shown in Table 1.

TABLE 1 – Classification by grain size

Class No.	100 % of the grains pass a sieve of aperture		From 40 to 60 % of the grains retained on a sieve of aperture		10 % max. of the grains pass a sieve of aperture	
	mm	μm	mm	μm	mm	μm
1	45	—	31.5	—	22.4	—
2	22.4	—	16.0	—	11.2	—
3	11.2	—	8.0	—	5.6	—
4	5.6	—	4.0	—	2.8	—
5	2.8	—	2.0	—	1.4	—
6	1.4	—	1.0	—	—	710
7	—	710	—	500	—	355
8	—	355	—	—	—	250
(powder)	—	250	—	—	—	—

The sizes of the sieve apertures conform to the specifications given in ISO/R 565.

4.2 Classification by bulk density

Granulated cork is classified in five *groups* according to bulk density, as shown in Table 2.

TABLE 2 – Classification by bulk density

Reference of Group	Bulk density ρ kg/m ³
04	$\rho \leq 40$
46	$40 < \rho \leq 60$
68	$60 < \rho \leq 80$
81	$80 < \rho \leq 100$
100	$\rho > 100$

5 DESIGNATION

Each category of granulated cork is described by the name, followed by the number of the grain size class and the reference of the bulk density group, separated by an oblique stroke.

Example : Granulated cork 3/81

Within each grain size class, a more precise specification may be laid down in contracts for particular uses.

In the same way, the method of production may be laid down in supplementary conditions.

6 PROPERTIES

6.1 Granule size

See 4.1.

6.2 Bulk density

See 4.2.

6.3 Moisture

6.3.1 Granulated cork is said to be *commercially dry* if its moisture is as shown in Table 3.

TABLE 3

Reference of Group	Moisture ¹⁾ %
04	6
46	6
68	8
81	10
100	10

6.3.2 Cork powder is said to be *commercially dry* if its moisture is 3 % ¹⁾.

6.4 Cork powder content

The amount of cork powder in granulated cork in all the categories indicated shall not exceed 0.2 %.

7 SAMPLING AND METHODS OF TEST

Sampling, and methods for the determination of granule size, dust and moisture and bulk density, are the subject of the following ISO documents : ISO/R 2067, ISO/R 2030, ISO 2190 and ISO 2031.

8 PACKING

Granulated cork and cork powder may be packed in bales, sacks or cartons.

If they are packed in bales, the granulated cork and cork powder shall be compressed, covered and reinforced with hooping and/or baling wire. Wooden strips may be used as additional reinforcement.

The tare of bales without wooden strips shall not exceed 4 % of the total mass and the tare of bales with wooden strips shall not exceed 6 %.

1) The moisture shall be determined in accordance with ISO 2190.