INTERNATIONAL STANDARD

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Expanded pure agglomerated cork for thermal insulation — Characteristics, sampling and packaging

Agglomérés expansés purs de liège pour isolation thermique — Caractéristiques, échantillonnage et emballage

Reference number
ISO 2219 : 1989 (E)

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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 2219 was prepared by Technical Committee ISO/TC 87, *Cork*.

This second edition cancels and replaces the first edition (ISO 2219 : 1972), of which it constitutes a technical revision.

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Expanded pure agglomerated cork for thermal insulation — Characteristics, sampling and packaging

1 Scope

This International Standard specifies the characteristics of pure agglomerated cork slabs and panels used as non-visible thermal insulation. It also specifies the methods of sampling and packaging. It is applicable to all pure agglomerated corkboard used at temperatures not exceeding 105 °C.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 633 : 1986, *Cork — Vocabulary.*

ISO 2066 : 1986, *Pure expanded corkboard — Determination of moisture content.*

ISO 2077 : 1979, *Pure expanded corkboard — Determination of the modulus of rupture by bending.*

ISO 2582 : 1978, *Cork and cork products — Determination of thermal conductivity — Hot-plate method.*

3 Characteristics

3.1 Finish

The cork slabs and panels shall be trimmed and have adjacent surfaces at right angles with sharp edges. The dimensions shall be as specified in 3.2.

3.2 Dimensions

Unless otherwise agreed, the nominal dimensions shall be as follows:

— length: 1 000 mm;

— width: 500 mm;

— minimum thickness: 25 mm.

The tolerances on the dimensions shall be as follows:

— length: ± 3 mm;

— width: ± 1,5 mm;

— thickness:

± 1 mm on thickness > 25 mm and ⩽ 50 mm,

± 2 % on thickness > 50 mm.

These dimensional characteristics shall be checked on agglomerated corkboard stabilized at a temperature of 20 °C ± 2 °C, and at 65 % ± 5 % relative humidity.

3.3 Modulus of rupture

The minimum modulus of rupture, determined in accordance with the method described in ISO 2077, shall be 140 kPa.

3.4 Thermal conductivity

The thermal conductivity determined in accordance with the method described in ISO 2582 shall not exceed

a) at 0 °C: 0,040 W/(m·K) or 0,034 kcal/(h·m·°C);

b) at 20 °C: 0,042 W/(m·K) or 0,036 kcal/(h·m·°C);

c) at 40 °C: 0,044 W/(m·K) or 0,038 kcal/(h·m·°C);

3.5 Moisture content

The moisture content, determined in accordance with the method described in ISO 2066, shall be not greater than 4 %.

4 Sampling

Unless otherwise agreed, the samples shall be taken from at least five packages.

One slab shall be taken at random from each package.

Take at random five slabs from those making up the gross sample; three of these shall be for laboratory tests and the other two shall be kept for possible arbitration.

If immediately after sampling these two slabs are not placed into airtight packaging, the determination of moisture content may not be carried out in the case of litigation.

5 Packing

The slabs or panels shall be dispatched adequately packed to protect them from damage during transportation to their destination.

Unless otherwise agreed between the interested parties, no one package may hold different slabs or panels.

6 Marking

The packages shall bear, or allow reading of, the following information:

a) the identification of the product;

b) the name, trade and address of the manufacturer, or his distinctive mark;

c) the country of origin.

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Descriptors: thermal insulation, panels, cork, agglomerates, specifications, dimensions, sampling, packaging.

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