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**INTERNATIONAL STANDARD**



**2219**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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**Cork — Expanded pure agglomerated thermal cork —  
Characteristics, sampling and packing**

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**Descriptors :** cork, agglomerates, thermal insulation, panels, characteristics, properties, sampling, packages.

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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 2219 was drawn up by Technical Committee ISO/TC 87, *Cork*.

It was approved in March 1971 by the Member Bodies of the following countries :

France	South Africa, Rep. of
Italy	Spain
Iran	United Kingdom
New Zealand	U.S.A.
Portugal	Yugoslavia

The Member Body of the following country expressed disapproval of the document :

Belgium

# Cork — Expanded pure agglomerated thermal cork — Characteristics, sampling and packing

## 1 SCOPE AND FIELD OF APPLICATION

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

## 2 REFERENCES

ISO/R 2066, *Pure expanded corkboard — Determination of moisture content.*

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

ISO 2189, *Cork — Expanded pure agglomerated cork — Determination of bulk density.*

ISO 2582, *Low conductivity materials — Determination of thermal conductivity — Guarded hot plate method using symmetrical test pieces.* (At present at the stage of Draft.)

## 3 CHARACTERISTICS

### 3.1 Finish

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

### 3.2 Dimensions

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

- 1) Length  
1000 mm — tolerance  $\pm$  3 mm.
- 2) Width  
500 mm — tolerance  $\pm$  1.5 mm.
- 3) Thickness  
Minimum : 25 mm — tolerance  $\pm$  5 %;  
Over 25 mm and up to 50 mm — tolerance  $\pm$  3 %;  
Over 50 mm — tolerance  $\pm$  2 %.

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

### 3.3 Bulk density

Unless otherwise agreed, the average bulk density shall be lower than 140 kg/cm<sup>3</sup>.

It shall be determined in accordance with the method described in ISO 2189.

### 3.4 Modulus of rupture

The minimum modulus of rupture shall be 140 kN/m<sup>2</sup>.

It shall be determined in accordance with the method described in ISO/R 2077.

### 3.5 Thermal conductivity

The thermal conductivity shall not exceed :

- 1) at 0 °C — 0.040 W/(m·K) or 0.034 kcal/(h·m·°C);
- 2) at 20 °C — 0.042 W/(m·K) or 0.036 kcal/(h·m·°C);
- 3) at 40 °C — 0.044 W/(m·K) or 0.038 kcal/(h·m·°C).

It shall be determined in accordance with the method described in ISO 2582.

### 3.6 Moisture content

The moisture content shall be lower than 0.005 g/cm<sup>3</sup>.

It shall be determined in accordance with ISO/R 2066.

## 4 SAMPLING

### 4.1 Acceptance at the works

Any boards kept for possible later arbitration may not be used to determine moisture content unless provision is made for placing them immediately into air-tight packaging.

### 4.2 Acceptance upon delivery

For each lot, the percentage of packages to be sampled shall be agreed between the interested parties.

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.

## 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 boards or panels.

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