INTERNATIONAL STANDARD



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION METALYHAPODHAR OPPAHИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ ORGANISATION INTERNATIONALE DE NORMALISATION

Particle boards - Determination of density

Panneaux de particules - Détermination de la masse volumique

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<u>ISO 822:1975</u> https://standards.iteh.ai/catalog/standards/sist/351e8727-a346-49fe-972a-009f2a99009d/iso-822-1975

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Ref. No. ISO 822-1975 (E)

Descriptors : building boards, particle boards, tests, measurement, density (mass/volume), test specimens.

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 VIEW 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 151 has reviewed ISO Recommendation R 822 and found it technically suitable for transformation. International Standard ISO 822 therefore replaces ISO Recommendation R 822-1968 to which it is technically identical.

https://standards.itch.ai/catalog/standards/sist/351e8727-a346-49fe-972a-ISO Recommendation R 822 was approved by the Member Bodies of the following countries :

Austria	Germany	Portugal
Belgium	India	Romania
Canada	Ireland	South Africa, Rep. of
Chile	Israel	Spain
Colombia	Korea, Rep. of	Sweden
Czechoslovakia	Netherlands	Switzerland
Egypt, Arab Rep. of	New Zealand	United Kingdom
Finland	Norway	U.S.S.R.
France	Poland	Yuqoslavia

No Member Body expressed disapproval of the Recommendation.

The Member Body of the following country disapproved the transformation of ISO/R 822 into an International Standard :

Norway

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Particle boards – Determination of density

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method of determining the density of particle boards, defined in ISO 820.

2 REFERENCES

ISO 820, Particle boards – Definition and classification.

ISO 821, Particle boards – Determination of dimensions of test pieces.

6.1 Weigh each test piece to an accuracy of 0,1 g.

6 PROCEDURE

6.2 Measure the dimensions of each test piece in accordance with ISO 821 as follows :

a) the thickness at four different points, shown by the circles in the figure;

b) the dimensions of the sides, parallel to the edges, between the two respective points shown in the figure.



See ISO 821.

5 SAMPLING AND TEST PIECES

5.1 Sampling and cutting of the test pieces shall be carried out in accordance with ISO . . .

5.2 The test pieces shall be square in shape, with sides measuring 100 mm.

 $\mathsf{NOTE}-\mathsf{In}$ the case of extruded tubular boards, the dimension of the test pieces shall be such that they are representative of the whole board.

5.3 The test pieces shall be conditioned to constant mass²) in an atmosphere of relative humidity 65 \pm 5 % and temperature 20 \pm 2 $^\circ$ C.

6.3 Calculate the volume of the test piece to the nearest $0,1 \text{ cm}^3$.

7 EXPRESSION OF RESULTS

7.1 Calculate the density, ρ , of each test piece, in grams per cubic centimetre to the nearest 0,01 g/cm³, using the following formula.

$$\rho = \frac{m}{V}$$

where

- m is the mass, in grams, of the test piece;
- V is the volume in cubic centimetres, of the test piece.

¹⁾ In preparation.

²⁾ Constant mass is considered to be reached when the results of two successive weighing operations, carried out at an interval of 24 h, do not differ by more than 0,1 % of the mass of the test piece.

7.2 The density of one board is obtained by calculating to the nearest $0,01 \text{ g/cm}^3$ the arithmetical mean value of the density of all the test pieces taken from the same board.

8 TEST REPORT

The test report shall contain the following particulars :

a) the type of board as defined in ISO 820, and all

necessary details to identify the boards;

b) the results expressed as stated in clause 7;

c) the moisture content of the test pieces at the time of testing, in accordance with ISO 823 and ISO . . .;

d) reference to this International Standard.

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