
INTERNATIONAL STANDARD



5972

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

Mica blocks, thins, films and splittings — Measurement of thickness

Mica en blocs, feuilles minces, lamelles et clivures — Mesurage de l'épaisseur

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Descriptors : mica, dimensional measurement, thickness.

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 5972 was developed by Technical Committee ISO/TC 56, *Mica*, and was circulated to the member bodies in April 1977.

It has been approved by the member bodies of the following countries:

Brazil	India	Turkey
Canada	Ireland	United Kingdom
Czechoslovakia	Netherlands	U.S.A.
Egypt, Arab Rep. of	Romania	U.S.S.R.
France	South Africa, Rep. of	Yugoslavia

No member body expressed disapproval of the document.

Mica blocks, thins, films and splittings — Measurement of thickness

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method of measuring the thickness of mica in blocks, thins, films and splittings.

2 APPARATUS

Constant-force dial-gauge micrometer, having a circular plunger of diameter 6 mm, and capable of exerting a pressure of 10^5 Pa during the measurement.

The measuring error of the micrometer shall not exceed 0,005 mm. However, for measuring the thickness of a single splitting, the apparatus used shall have an accuracy better than 0,005 mm.

NOTES

1 The accuracy of the micrometer shall be checked with a set of slip gauges.

2 It is permissible to use a micrometer with ratchet having a plunger of diameter 6 mm. However, in case of dispute, a micrometer of the type specified above shall be used.

3 PROCEDURE

Carry out one measurement for every 10 cm² of the surface of the sample. For surfaces equal to or less than 10 cm², a single measurement is adequate.

4 EXPRESSION OF RESULTS

The arithmetic mean of the measurements carried out as specified in clause 3 is to be taken as the thickness.