

INTERNATIONAL STANDARD

IEC
60371-3-2

Second edition
2005-10

Insulating materials based on mica

Part 3: Specifications for individual materials – Sheet 2: Mica paper

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE

M

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

INSULATING MATERIALS BASED ON MICA –**Part 3: Specifications for individual materials –
Sheet 2: Mica paper**

FOREWORD

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International Standard IEC 60371-3-2 has been prepared by IEC technical committee 15: Standards on specifications for electrical Insulating materials.

This second edition cancels and replaces the first edition, published in 1991, and constitutes a technical revision.

The main changes with regard to the previous edition include adjustments to align this standard with changes included in the latest edition of IEC 60371-2.

The text of this standard is based on the following documents:

FDIS	Report on voting
15/227/FDIS	15/245/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

This part of IEC 60371 forms part of a series which deals with insulating materials built up from mica splittings or mica paper with or without reinforcement, and with mica paper in its pure state for use in electrical equipment.

IEC 60371 consists of three parts under the main title *Specification for insulating materials based on mica*:

Part 1: Definitions and general requirements

Part 2: Methods of test

Part 3: Specifications for individual materials

This standard contains one of the sheets comprising part 3, as follows:

Sheet 2: Mica paper

INSULATING MATERIALS BASED ON MICA –

Part 3: Specifications for individual materials – Sheet 2: Mica paper

1 Scope

This part of IEC 60371 gives requirements for electrical insulating materials made from mica paper which is to be processed for built-up mica materials according to IEC 60371-1, such as rigid flat mica materials, flexible mica materials, curable flexible mica materials and shaped pieces.

Materials which conform to this specification meet established levels of performance. However, the selection of a material by a user for a specific application should be based on the actual requirements necessary for adequate performance in that application and not based on this specification alone.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60371-1:2003, *Specification for insulating materials based on mica – Part 1: Definitions and general requirements*

IEC 60371-2:2004, *Specification for insulating materials based on mica – Part 2: Methods of test*

IEC 60554-2:2001, *Cellulosic paper for electrical purposes – Part 2: Methods of test*

IEC 60589:1977, *Methods of test for the determination of ionic impurities in electrical insulating materials by extraction with liquids*

ISO 534:2005, *Paper and board – Determination of thickness and apparent bulk density or apparent sheet density*

ISO 536:1995, *Paper and board – Determination of grammage*

ISO 5636-5:2003, *Paper and board – Determination of air permeance and air resistance (medium range) – Part 5: Gurley method*