
Specifikacija izolacijskih snovi iz sljude – 2. del: Preskusne metode (IEC 60371-2:2004)

Specification for insulating materials based on mica - Part 2: Methods of test (IEC 60371-2:2004)

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EUROPEAN STANDARD

EN 60371-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2004

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Supersedes EN 60371-2:1997

English version

Specification for insulating materials based on mica
Part 2: Methods of test
(IEC 60371-2:2004)

Spécification pour les matériaux isolants
à base de mica
Partie 2: Méthodes d'essais
(CEI 60371-2:2004)

Bestimmung für Isoliermaterialien
aus Glimmer
Teil 2: Prüfverfahren
(IEC 60371-2:2004)

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This European Standard was approved by CENELEC on 2004-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 15C/1610/FDIS, future edition 3 of IEC 60371-2, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60371-2 on 2004-09-01.

This European Standard supersedes EN 60371-2:1997.

The main changes with respect to EN 60371-2:1997 are as follows:

- a) All clauses re-numbered.
- b) Relevant template of ISO 67 has been added to this standard as Annex A.
- c) Clause 8: Tensile strength and elongation at break
 Procedure modified to give "rate of movement" instead of "time limit". Different rate of movement for raw mica as opposed to reinforced and/or impregnated mica.
- d) Clause 11: Stiffness
 Size of test specimen revised. wording modified so that standard covers materials using carriers other than woven glass cloth and materials that are 3-ply. Revision of terms "machine direction" and "transverse direction".
- e) Clause 13: Elastic compression and plastic compression
 Tolerance on measurement of height of stack changed to within 0,01 mm.
 Times for change in pressure in procedure changed to 1 min.
- f) Clause 16: Electric strength
 Modified in line with Amendment 1:1994 to IEC 60371-2:1987 (included in EN 60371-2:1997). Changes relate to latest edition of EN 60243-1.
- g) Clause 19: Detection of defects and conductive particles
 Revised subclause.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2005-06-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2007-09-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60371-2:2004 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

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.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60216	Series	Electrical insulating materials - Thermal endurance properties	EN 60216	Series
IEC 60243-1	1998	Electrical strength of insulating materials - Test methods Part 1: Tests at power frequencies	EN 60243-1	1998
IEC 60250	1969	Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including metre wavelengths	-	-
IEC 60371-3	Series	Specifications for insulating materials based on mica Part 3: Specifications for individual materials	EN 60371-3	Series
ISO 178	- 1)	Plastics - Determination of flexural properties	EN ISO 178	2003 2)

1) Undated reference.

2) Valid edition at date of issue.

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CEI
IEC

60371-2

Troisième édition
Third edition
2004-06

**Spécification pour les matériaux isolants
à base de mica –**

**Partie 2:
Méthodes d'essais**

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**Specification for insulating materials
based on mica –**

SIST EN 60371-2:2005

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**Part 2:
Methods of test**

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SPECIFICATION FOR INSULATING MATERIALS
BASED ON MICA –****Part 2: Methods of test**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60371-2 has been prepared by subcommittee 15C: Specifications, of IEC technical committee 15: Insulating materials. prescription

This third edition of IEC 60371-2 cancels and replaces the second edition, published in 1987, and its amendment 1 (1994), and constitutes a technical revision.

The main changes from the previous edition are as follows:

- a) All clauses re-numbered.
- b) Relevant template of ISO 67 has been added to this standard as Annex A.
- c) Clause 8: Tensile strength and elongation at break

Procedure modified to give "rate of movement" instead of "time limit". Different rate of movement for raw mica as opposed to reinforced and/or impregnated mica.

d) Clause 11: Stiffness

Size of test specimen revised. Wording modified so that standard covers materials using carriers other than woven glass cloth and materials that are 3-ply. Revision of terms "machine direction" and "transverse direction". (These were incorrect in second edition (1987).)

e) Clause 13: Elastic compression and plastic compression

Tolerance on measurement of height of stack changed to within 0,01 mm.

Times for change in pressure in procedure changed to 1 min.

f) Clause 16: Electric strength

Modified in line with Amendment 1 (1994) to the second edition (1987). Changes relate to latest edition of IEC 60243-1.

g) Clause 19: Detection of defects and conductive particles

Revised subclause.

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

FDIS	Report on voting
15C/1610/FDIS	15C/1643/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.

INTRODUCTION

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

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

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