SLOVENSKI STANDARD
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Specification for insulating materials based on mica - Part 1: Definitions and general requirements (IEC 60371-1:1980)

Specification for insulating materials based on mica -- Part 1: Definitions and general requirements

Bestimmung für Glimmererzeugnisse für elektrotechnische Zwecke -- Teil 1: Begriffe und allgemeine Anforderungen

Spécification pour les matériaux isolants à base de mica -- Partie 1: Définitions et prescriptions générales

Ta slovenski standard je istoveten z: EN 60371-1:1995

ICS:

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29.035.50	Materiali na podlagi sljude	Mica based materials

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NORME EUROPÉENNE

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English version

Specification for insulating materials based on mica
Part 1: Definitions and general requirements
(IEC 371-1:1980)

Spécification pour les matériaux isolants à base de mica
Partie 1: Définitions et prescriptions générales
(CEI 371-1:1980)

Bestimmung für Glimmererzeugnisse für elektrotechnische Zwecke
Teil 1: Begriffe und allgemeine Anforderungen
(IEC 371-1:1980)

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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 the International Standard IEC 371-1:1980, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was approved by CENELEC as HD 352.1 S2 on 1982-07-07.

This Harmonization Document was submitted to the formal vote for conversion into a European Standard and was approved by CENELEC as EN 60371-1 on 1995-05-15.

The following date was 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) 1996-07-01

Endorsement notice

The text of the International Standard IEC 371-1:1980 was approved by CENELEC as a European Standard without any modification.

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Specification for insulating materials based on mica

Part 1: Definitions and general requirements

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SPECIFICATION FOR INSULATING MATERIALS BASED ON MICA

Part 1: Definitions and general requirements

FOREWORD

1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.

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PREFACE

This standard has been prepared by Sub-Committee 15C: Specifications, of IEC Technical Committee No. 15: Insulating Materials.

A first draft of the second edition was discussed at the meeting held in Zurich in 1979. As a result of this meeting, a draft, Document 15C(Central Office)102, was submitted to the National Committees for approval under the Six Months' Rule in August 1979.

The National Committees of the following countries voted explicitly in favour of publication:

Belgium
Brazil
Canada
China
Czechoslovakia
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Germany
Ireland
Italy
New Zealand
Norway
Poland
Romania
South Africa (Republic of)
Spain
Sweden
Switzerland
Union of Soviet Socialist Republics
United Kingdom
Yugoslavia

SPECIFICATION FOR INSULATING MATERIALS BASED ON MICA

Part 1: Definitions and general requirements

INTRODUCTION

This standard 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.

The series will consist of three parts:

1. Definitions and general requirements.
2. Methods of test.
3. Individual materials.

1. Scope

This part of the standard gives definitions of terms used to describe built-up mica materials, products based on them and mica paper. It also deals with general requirements and conditions of supply.

2. Definitions

For the purpose of this standard the following definitions apply:

2.1 Micas are crystalline double silicates, of which two main types are used for electrical purposes. They are:

a) muscovites (aluminium-potash micas), which are hard;
b) phlogopites (aluminium-magnesium-potash micas) which are softer than muscovites.

Note. — Where additional information on mica is required, reference should be made to ISO Standards 2185 and 5972 and Recommendation ISO/R 67.

2.2 *Mica splittings*

Laminae split from blocks or thin foil.

2.3 *Mica paper*

Paper-like material consisting entirely of very small flakes of mica without any binder.

2.4 *Built-up mica*

One or more layers of mica splittings or mica paper bonded together with a suitable binder with or without reinforcement.

3. Description of material

3.1 *Rigid flat mica material or mica paper*

Built-up mica, bonded under pressure, with or without external heat, in the form of rigid flat pieces.

3.1.1 *Rigid material for commutator separators*

Rigid mica material ground on one or both surfaces.

Note. — Commutator separators are the insulation between commutator segments.

3.1.2 *Rigid material for heating equipment*

Rigid mica material capable of operating at the specified temperature, not usually ground.

3.1.3 *Rigid material, heat formable*

Rigid mica material which can be formed and moulded when heated, not usually ground.

3.2 *Flexible mica material*

Built-up mica which is sufficiently flexible to permit winding or wrapping into place, usually without application of heat. The flexibility may or may not be maintained after application.

3.3 *Curable flexible mica material with B stage resin*

Flexible mica material with a binder suitable for final cure after application.

3.4 *Shaped pieces*

Definition under consideration.

4. General requirements and conditions of supply

See the appropriate sheets of Part 3, applicable to the individual types of built-up mica.