SLOVENSKI STANDARD

SIST EN 62011-2:2004

september 2004

Izolacijski materiali – Industrijske toge ulite laminirane cevi in palice s pravokotnim in šesterokotnim prerezom iz smol s toplotnim utrjevanjem za električne namene - 2. del: Preskusne metode (IEC 62011-2:2004)

Insulating materials - Industrial, rigid, moulded, laminated tubes and rods of rectangular and hexagonal cross-section, based on thermosetting resins for electrical purposes - Part 2: Methods of test (IEC 62011-2:2004)

ICS 29.035.20

Referenčna številka
SIST EN 62011-2:2004(en)

EUROPEAN STANDARD **EN 62011-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM March 2004

ICS 29.035.20

English version

Insulating materials – Industrial, rigid, moulded, laminated tubes and rods of rectangular and hexagonal cross-section, based on thermosetting resins for electrical purposes Part 2: Methods of test

(IEC 62011-2:2004)

Matériaux isolants –
Tubes et barres industriels, rigides, moulés, stratifiés, de sections transversales rectangulaires ou hexagonales, à base de résines thermodurcissables, à usages électriques
Partie 2: Méthodes d'essai
(CEI 62011-2:2004)

Isolierstoffe –
Formgepresste Rohre und Stäbe mit rechteckigem und sechseckigem Querschnitt aus technischen Schichtpressstoffen auf der Basis warmhärtender Harze für elektrotechnische Zwecke
Teil 2: Prüfverfahren
(IEC 62011-2:2004)

This European Standard was approved by CENELEC on 2004-03-01. 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

Ref. No. EN 62011-2:2004 E

Foreword

The text of document 15C/1532/FDIS, future edition 1 of IEC 62011-2, 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 62011-2 on 2004-03-01.

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) 2004-12-01

– latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-03-01

Annex ZA has been added by CENELEC.

_____

Endorsement notice

The text of the International Standard IEC 62011-2:2004 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61212-1	NOTE	Harmonized as EN 61212-1:1995 (not modified).
IEC 62011-1	NOTE	Harmonized as EN 62011-1:2002 (not modified).

_____

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.

Publication	Year	Title	EN/HD	Year
IEC 60167	1964	Methods of test for the determination of the insulation resistance of solid insulating materials	HD 568 S1	1990
IEC 60212	1971	Standard conditions for use prior to and during the testing of solid electrical insulating materials	HD 437 S1	1984
IEC 60243-1	1998	Electrical strength of insulating materials - Test methods Part 1: Tests at power frequencies	EN 60243-1	1998
IEC 60296	1982	Specification for unused mineral insulating oils for transformers and switchgear	EN 60296	2004
IEC 62011-3	Series	Insulating materials - Industrial rigid moulded laminated tubes and rods of rectangular and hexagonal cross-section based on thermosetting resins for electrical purposes Part 3: Specifications for individual materials	EN 62011-3	Series
ISO 62	1999	Plastics - Determination of water absorption	-	-
ISO 178	2001	Plastics - Determination of flexural properties	-	-
ISO 604	2002	Plastics - Determination of compressive properties	-	-
ISO 1183	1987	Plastics - Methods for determining the density and relative density of non-cellular plastics	-	-
ISO 5893	2002	Rubber and plastics test equipment - Tensile, flexural and compression types (constant rate of traverse) - Specification	-	-

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
62011-2

Première édition
First edition
2004-01

Matériaux isolants – Tubes et barres industriels, rigides, moulés, stratifiés, de sections transversales rectangulaires ou hexagonales, à base de résines thermodurcissables, à usages électriques –

Partie 2: Méthodes d'essai

Insulating materials – Industrial, rigid, moulded, laminated tubes and rods of rectangular and hexagonal cross-section, based on thermosetting resins for electrical purposes –

Part 2: Methods of test

International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch

Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE P

Pour prix, voir catalogue en vigueur
For price, see current catalogue

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

INSULATING MATERIALS – INDUSTRIAL, RIGID, MOULDED, LAMINATED TUBES AND RODS OF RECTANGULAR AND HEXAGONAL CROSS-SECTION, BASED ON THERMOSETTING RESINS FOR ELECTRICAL PURPOSES –

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.
2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
6) All users should ensure that they have the latest edition of this publication.
7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 62011-2 has been prepared by subcommittee 15C: Specifications, of IEC technical committee 15: Insulating materials.

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

FDIS	Report on voting
15C/1532/FDIS	15C/1552/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 2005. At this date, the publication will be

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

INTRODUCTION

This part of IEC 62011 is one of a series which deals with industrial, rigid, moulded, laminated tubes of rectangular cross-section and rods of rectangular and hexagonal cross-section, based on thermosetting resins for electrical purposes. The materials are similar to those described in IEC 61212-1 but of different cross-section.

This series, under the general heading *Insulating materials – Industrial, rigid, moulded, laminated tubes and rods of rectangular and hexagonal cross-section based on thermosetting resins for electrical purposes,* consists of three parts:

Part 1: Definitions, designations and general requirements

Part 2: Methods of test

Part 3: Specifications for individual materials

IEC 62011-2 specifies the methods of test.