

# INTERNATIONAL STANDARD

# IEC 61212-1

Second edition  
2006-03

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## **Insulating materials – Industrial rigid round laminated tubes and rods based on thermosetting resins for electrical purposes –**

### **Part 1: Definitions, designations and general requirements**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **INSULATING MATERIALS – INDUSTRIAL RIGID ROUND LAMINATED TUBES AND RODS BASED ON THERMOSETTING RESINS FOR ELECTRICAL PURPOSES –**

#### **Part 1: Definitions, designations and general requirements**

#### FOREWORD

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International Standard IEC 61212-1 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 1995 and constitutes a technical revision.

The main changes from the previous edition are as follows: added application use and safety statements. Reformatted document to bring it up to current IEC document format. Method for designation of tubes changed in line with common practice. New types EP GC 23 and PF CC 24 added. Type PF CP 24 removed.

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

FDIS	Report on voting
15/271/FDIS	15/304/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.

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

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- withdrawn,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.

The contents of the corrigendum of March 2014 have been included in this copy.

## INTRODUCTION

This International Standard is one of a series which deals with industrial rigid round laminated tubes and rods based on thermosetting resins for electrical purposes.

This series consists of three parts:

Part 1: Definitions, designations and general requirements (IEC 61212-1)

Part 2: Methods of test (IEC 61212-2)

Part 3: Specifications for individual materials (IEC 61212-3)

# **INSULATING MATERIALS – INDUSTRIAL RIGID ROUND LAMINATED TUBES AND RODS BASED ON THERMOSETTING RESINS FOR ELECTRICAL PURPOSES –**

## **Part 1: Definitions, designations and general requirements**

### **1 Scope**

This part of IEC 61212 gives the definitions related to the designations to be used for, and the general requirements to be fulfilled by, industrial rigid round laminated tubes and rods for electrical purposes made with any of the following resins as the binder: phenolic, epoxy (epoxide), melamine and silicone. The following reinforcements may be used either singly or in combination: cellulosic paper, woven cotton cloth, woven glass cloth, mica paper.

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.

Safety warning:

It is the responsibility of the user of the methods contained or referred to in this document to ensure that they are used in a safe manner.

### **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 61212-2:2006, *Insulating materials – Industrial rigid round laminated tubes and rods based on thermosetting resins for electrical purposes – Part 2: Methods of test*

IEC 61212-3 (all parts):—, *Insulating materials – Industrial rigid round laminated tubes and rods based on thermosetting resins for electrical purposes – Part 3: Specifications for individual materials*<sup>2</sup>

ISO 472, *Plastics – Vocabulary*