

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Vulcanized fibre for electrical purposes –  
Part 2: Methods of test**

**Fibres vulcanisées à usages électriques –  
Partie 2: Méthodes d'essai**



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**VULCANIZED FIBRE  
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International Standard IEC 60667-2 has been prepared by IEC Technical Committee 15: Solid electrical insulating materials.

This second edition cancels and replaces the first edition published in 1982. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) added Terms and definitions
- b) added General notes on tests
- c) added Thickness instead of dimension
- d) changed Apparent density from Density
- e) added Arc resistance
- f) deleted Sulphate content
- g) added method (Bending) for flexibility

- h) changed test method for internal ply adhesion
- i) added Shrinkage

The text of this International Standard is based on the following documents:

FDIS	Report on voting
15/911/FDIS	15/919/RVD

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

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

A list of all parts in the IEC 60667 series, published under the general title *Vulcanized fibre for electrical purposes*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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

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

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## INTRODUCTION

This International Standard is one of a series which deals with vulcanized fibre sheets for electrical purposes.

The series consists of three parts:

Part 1: Definitions and general requirements (IEC 60667-1),

Part 2: Methods of test (IEC 60667-2),

Part 3: Specifications for individual materials (IEC 60667-3).

# VULCANIZED FIBRE FOR ELECTRICAL PURPOSES –

## Part 2: Methods of test

### 1 Scope

This part of IEC 60667 gives methods of test for vulcanized fibre sheets for electrical purposes. Material made by combining with an adhesive several thicknesses of vulcanized fibre is not covered by this document.

Materials which conform to this specification meet established levels of performance. However, the selection of a material by a user for a specific application is 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 reference

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60641-2:2004, *Pressboard and presspaper for electrical purposes – Part 2: Methods of tests*

IEC 60667-3 (all parts), *Specification for vulcanized fibre for electrical purposes – Part 3: Specifications for individual materials*

IEC 61621:1997, *Dry, solid insulating materials – Resistance test to high-voltage, low-current arc discharges*

ISO 178:2019, *Plastics – Determination of flexural properties*

ISO 287:2017, *Paper and board – Determination of moisture content of a lot – Oven-drying method*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>