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de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN IEC 62631-2-1:2018

Dielectric and resistive properties of solid insulating materials - Part 2-1: Relative permittivity and dissipation factor - Technical frequencies (0,1 Hz

Propriétés diélectriques et résistives des
matériaux isolants solides - Partie 2-1:

Permittivité relative et facteur de
dissipation - Fréquences techniques (0,1

Dielektrische und resistive Eigenschaften
fester Elektroisierstoffe - Teil 2-1:

Relative Permittivität und Verlustfaktor -
Technische Frequenzen (0,1 Hz bis 10

04/2018



National Foreword

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English Version

**Dielectric and resistive properties of solid insulating materials -
Part 2-1: Relative permittivity and dissipation factor - Technical
frequencies (0,1 Hz to 10 MHz) - AC Methods
(IEC 62631-2-1:2018)**

Propriétés diélectriques et résistives des matériaux isolants
solides - Partie 2-1: Permittivité relative et facteur de
dissipation - Fréquences techniques (0,1 Hz à 10 MHz) -
Méthodes en courant alternatif
(IEC 62631-2-1:2018)

Dielektrische und resistive Eigenschaften fester
Elektroisolerstoffe Teil 2-1: Dielektrizitätszahl und der
Verlustfaktor Technische Frequenzen (0,1 Hz - 10 MHz) -
Wechselspannungsverfahren
(IEC 62631-2-1:2018)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 112/412/FDIS, future edition 1 of IEC 62631-2-1, prepared by IEC/TC 112 "Evaluation and qualification of electrical insulating materials and systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62631-2-1:2018.

The following dates are fixed:

- latest date by which the document has to be (dop) 2019-01-03
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60216-1	NOTE	Harmonized as EN 60216-1.
IEC 60216-4-1:2006	NOTE	Harmonized as EN 60216-4-1:2006 (not modified).
IEC 60247	NOTE	Harmonized as EN 60247.
IEC 60505	NOTE	Harmonized as EN 60505.
IEC 62631-1	NOTE	Harmonized as EN 62631-1.
IEC 60455 series	NOTE	Harmonized as EN 60455 series.
IEC 60464 series	NOTE	Harmonized as EN 60464 series.
IEC 61212 series	NOTE	Harmonized as EN 61212 series.
ISO 291	NOTE	Harmonized as EN ISO 291.
ISO 294-1	NOTE	Harmonized as EN ISO 294-1.
ISO 294-3	NOTE	Harmonized as EN ISO 294-3.
ISO 295	NOTE	Harmonized as EN ISO 295.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60212	-	Standard conditions for use prior to and during the testing of solid electrical insulating materials	EN 60212	-
ISO 4593	-	Plastics - Film and sheeting - Determination of thickness by mechanical scanning	-	-



INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Dielectric and resistive properties of solid insulating materials –
Part 2-1: Relative permittivity and dissipation factor – Technical frequencies
(0,1 Hz to 10 MHz) – AC methods**

**Propriétés diélectriques et résistives des matériaux isolants solides –
Partie 2-1: Permittivité relative et facteur de dissipation – Fréquences techniques
(0,1 Hz à 10 MHz) – Méthodes en courant alternatif**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIELECTRIC AND RESISTIVE PROPERTIES OF SOLID INSULATING MATERIALS –

Part 2-1: Relative permittivity and dissipation factor – Technical frequencies (0,1 Hz to 10 MHz) – AC methods

FOREWORD

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International Standard IEC 62631-2-1 has been prepared by IEC technical committee 112: Evaluation and qualification of electrical insulating materials and systems.

This first edition cancels and replaces the first edition IEC 60250, published in 1969. This edition constitutes a technical revision.

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

- a) technical frequencies confined to AC methods;
- b) update on measurements on solid dielectric materials.