

STN	Dielektrické a odporové vlastnosti tuhých izolačných materiálov Časť 3-2: Určovanie odporových vlastností (metódy jednosmerného prúdu) Povrchový elektrický odpor a povrchová rezistivita	STN EN IEC 62631-3-2 34 6460
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Dielectric and resistive properties of solid insulating materials - Part 3-2: Determination of resistive properties (DC methods) - Surface resistance and surface resistivity

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/24

Obsahuje: EN IEC 62631-3-2:2023, IEC 62631-3-2:2023

Oznámením tejto normy sa od 20.11.2026 ruší
STN EN 62631-3-2 (34 6460) zo septembra 2016

138120



EUROPEAN STANDARD

EN IEC 62631-3-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2023

ICS 17.220.99; 29.035.01

Supersedes EN 62631-3-2:2016

English Version

**Dielectric and resistive properties of solid insulating materials -
Part 3-2: Determination of resistive properties (DC methods) -
Surface resistance and surface resistivity
(IEC 62631-3-2:2023)**

Propriétés diélectriques et résistives des matériaux isolants solides - Partie 3-2: Détermination des propriétés résistives (méthodes en courant continu) - Résistance superficielle et résistivité superficielle (IEC 62631-3-2:2023)

Dielektrische und resistive Eigenschaften fester Isolierstoffe - Teil 3-2: Bestimmung resistiver Eigenschaften (Gleichspannungsverfahren) - Oberflächenwiderstand und spezifischer Oberflächenwiderstand (IEC 62631-3-2:2023)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 62631-3-2:2023 (E)**European foreword**

The text of document 112/612/FDIS, future edition 2 of IEC 62631-3-2, 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 62631-3-2:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-08-20
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IEC 60893-2	NOTE Approved as EN 60893-2
IEC 61212-2	NOTE Approved as EN 61212-2
IEC 62011-2	NOTE Approved as EN 62011-2
ISO 10350 (series)	NOTE Approved as EN ISO 10350 (series)
ISO 10350-1	NOTE Approved as EN ISO 10350-1
ISO 10350-2	NOTE Approved as EN ISO 10350-2
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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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.cencenelec.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	-
IEC 62631-3-1	-	Dielectric and resistive properties of solid insulating materials - Part 3-1: Determination of resistive properties (DC methods) - Volume resistance and volume resistivity - General method	EN IEC 62631-3-1	-
IEC 62631-3-3	-	Dielectric and resistive properties of solid insulating materials - Part 3-3: Determination of resistive properties (DC methods) - Insulation resistance	EN 62631-3-3	-



IEC 62631-3-2

Edition 2.0 2023-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Dielectric and resistive properties of solid insulating materials –
Part 3-2: Determination of resistive properties (DC methods) – Surface
resistance and surface resistivity**

**Propriétés diélectriques et résistives des matériaux isolants solides –
Partie 3-2: Détermination des propriétés résistives (méthodes en courant
continu) – Résistance superficielle et résistivité superficielle**



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IEC 62631-3-2

Edition 2.0 2023-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Dielectric and resistive properties of solid insulating materials –
Part 3-2: Determination of resistive properties (DC methods) – Surface
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Partie 3-2: Détermination des propriétés résistives (méthodes en courant
continu) – Résistance superficielle et résistivité superficielle**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 17.220.99, 29.035.01

ISBN 978-2-8322-7549-8

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIELECTRIC AND RESISTIVE PROPERTIES OF SOLID INSULATING MATERIALS –

Part 3-2: Determination of resistive properties (DC methods) – Surface resistance and surface resistivity

FOREWORD

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IEC 62631-3-2 has been prepared by IEC technical committee 112: Evaluation and qualification of electrical insulating materials and systems. It is an International Standard.

This second edition cancels and replaces the first edition published in 2015. This edition constitutes a technical revision.

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

- a) descriptions of the electrode arrangements have been clarified;
- b) new descriptions of the conductive means have been added;

- c) a new informative Annex B summarizing the results of the comparative verification study on surface resistivities using different electrode arrangements has been added.

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

Draft	Report on voting
112/612/FDIS	112/619/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62631 series, published under the general title *Dielectric and resistive properties of solid insulating materials*, can be found on the IEC website.

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

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DIELECTRIC AND RESISTIVE PROPERTIES OF SOLID INSULATING MATERIALS –

Part 3-2: Determination of resistive properties (DC methods) – Surface resistance and surface resistivity

1 Scope

This part of IEC 62631 describes methods of test for the determination of surface resistance and surface resistivity of electrical insulation materials by applying DC voltage.

2 Normative references

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 60212, *Standard conditions for use prior to and during the testing of solid electrical insulating materials*

IEC 62631-3-1, *Dielectric and resistive properties of solid insulating materials – Part 3-1: Determination of resistive properties (DC methods) – Volume resistance and volume resistivity – General method*

IEC 62631-3-3, *Dielectric and resistive properties of solid insulating materials – Part 3-3: Determination of resistive properties (DC methods) – Insulation resistance*

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