



SLOVENSKI STANDARD
SIST EN IEC 60544-5:2022

01-oktober-2022

Nadomešča:
SIST EN 60544-5:2012

**Električni izolacijski materiali - Ugotavljanje učinkov ionizirnega sevanja - 5. del:
Postopki za ocenjevanje staranja med uporabo (IEC 60544-5:2022)**

Electrical insulating materials - Determination of the effects of ionizing radiation - Part 5:
Procedures for assessment of ageing in service (IEC 60544-5:2022)

Elektroisolierstoffe - Bestimmung der Wirkung ionisierender Strahlung - Teil 5:
Bewertungsverfahren für die Alterung während des Einsatzes (IEC 60544-5:2022)

Matériaux isolants électriques - Détermination des effets des rayonnements ionisants -
Partie 5: Procédures pour l'estimation du vieillissement en service (IEC 60544-5:2022)

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29.035.01	Izolacijski materiali na splošno	Insulating materials in general

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Electrical insulating materials - Determination of the effects of
ionizing radiation - Part 5: Procedures for assessment of ageing
in service
(IEC 60544-5:2022)

Matériaux isolants électriques - Détermination des effets
des rayonnements ionisants - Partie 5: Procédures pour
l'évaluation du vieillissement en service
(IEC 60544-5:2022)

Elektroisolierstoffe - Bestimmung der Wirkung ionisierender
Strahlung - Teil 5: Bewertungsverfahren für die Alterung
während des Einsatzes
(IEC 60544-5:2022)

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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

EN IEC 60544-5:2022 (E)**European foreword**

The text of document 112/523/CDV, future edition 3 of IEC 60544-5, 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 60544-5:2022.

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) 2023-04-22
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-07-22

This document supersedes EN 60544-5:2012 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 60544-5:2022 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/IEEE 62582 (series)	NOTE Harmonized as EN IEC/IEEE 62582 (series)
IEC 62465	NOTE Harmonized as EN IEC 62465
IEC/IEEE 60780-323	NOTE Harmonized as EN 60780-323
IEC 60544-4	NOTE Harmonized as EN 60544-4
IEC 60544-1	NOTE Harmonized as EN 60544-1

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 60544-2	-	Electrical insulating materials - Determination of the effects of ionizing radiation on insulating materials - Part 2: Procedures for irradiation and test	EN 60544-2	-
IEC/TS 61244-1	-	Determination of long-term radiation ageing in polymers - Part 1: Techniques for monitoring diffusion-limited oxidation	-	-
IEC/TS 61244-2	-	Determination of long-term radiation ageing in polymers - Part 2: Procedures for predicting ageing at low dose rates	-	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical insulating materials – Determination of the effects of ionizing radiation –
Part 5: Procedures for assessment of ageing in service**

**Matériaux isolants électriques – Détermination des effets des rayonnements ionisants –
Partie 5: Procédures pour l'évaluation du vieillissement en service**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL INSULATING MATERIALS –
DETERMINATION OF THE EFFECTS OF IONIZING RADIATION –****Part 5: Procedures for assessment of ageing in service**

FOREWORD

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IEC 60544-5 has been prepared by IEC technical committee TC 112: Evaluation and qualification of electrical insulating materials and systems. It is an International Standard.

This third edition cancels and replaces the second edition published in 2011. This edition constitutes a technical revision.

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

- a) added recent references in 7.4 showing that some electrical condition monitoring methods show promising correlations with ageing;
- b) updated recommendations for implementation of a sample deposit in 9.2, installation of a sample deposit in 9.3 and testing of samples from the deposit in 9.4;
- c) updated list of references.

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

Draft	Report on voting
112/523/CDV	112/553/RVC

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/standardsdev/publications.

A list of all parts in the IEC 60544 series, published under the general title *Electrical insulating materials – Determination of the effects of ionizing radiation*, 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

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

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