
**Električni izolacijski materiali – Ugotavljanje učinkov ionizirnega sevanja - 4.
del: Klasifikacijski sistem za uporabo v okoljih s sevanjem (IEC 60544-4:2003)**

Electrial insulating materiales - Determination of the effects of ionizing radiation -
Part 4: Classification system for service in radiation environments (IEC 60544-
4:2003)

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EUROPEAN STANDARD

EN 60544-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2003

ICS 17.240; 29.035.01

English version

**Electrical insulating materials -
Determination of the effects of ionizing radiation
Part 4: Classification system for service in radiation environments
(IEC 60544-4:2003)**

Matériaux isolants électriques -
Détermination des effets
des rayonnements ionisants
Partie 4: Système de classification
pour l'utilisation dans un environnement
sous rayonnement
(CEI 60544-4:2003)

Elektroisolierstoffe -
Bestimmung der Wirkung
ionisierender Strahlung
Teil 4: Klassifikationssystem
für den Einsatz unter Strahlung
(IEC 60544-4:2003)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 15E/218/FDIS, future edition 2 of IEC 60544-4, prepared by SC 15E, Methods of test, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60544-4 on 2003-10-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2004-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2006-10-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60544-4:2003 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 60093	NOTE	Harmonized as HD 429 S1:1993 (not modified).
IEC 60167	NOTE	Harmonized as HD 568 S1:1990 (not modified).
IEC 60243	NOTE	Harmonized as EN 60243 series (not modified).
ISO 178	NOTE	Harmonized as EN ISO 178:2003 (not modified).
ISO 179	NOTE	Harmonized as EN ISO 179 series (not modified).
ISO 527	NOTE	Harmonized as EN ISO 527 series (not modified).
ISO 868	NOTE	Harmonized as EN ISO 868:2003 (not modified).

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60212	1971	Standard conditions for use prior to and during the testing of solid electrical insulating materials	HD 437 S1	1984
IEC 60544-1	1994	Electrical insulating materials - Determination of the effects of ionizing radiation Part 1: Radiation interaction and dosimetry	EN 60544-1	1994
IEC 60544-2	1991	Part 2: Procedures for irradiation and test	-	-
IEC/TR2 61244-1	1993	Determination of long-term radiation ageing in polymers Part 1: Techniques for monitoring diffusion-limited oxidation	-	-
IEC/TR2 61244-2	1996	Part 2: Procedures for predicting ageing at low dose rates	-	-

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

60544-4

Deuxième édition
Second edition
2003-07

**Matériaux isolants électriques –
Détermination des effets des rayonnements
ionisants –**

Partie 4:

**Système de classification pour l'utilisation
dans un environnement sous rayonnement**

(standards.iteh.ai)

**Electrical insulating materials –
Determination of the effects of ionizing
radiation –**

Part 4:

**Classification system for service
in radiation environments**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL INSULATING MATERIALS –
DETERMINATION OF THE EFFECTS OF IONIZING RADIATION –****Part 4: Classification system for service in radiation environments**

FOREWORD

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International Standard IEC 60544-4 has been prepared by subcommittee 15E: Methods of test, of IEC technical committee 15: Insulating materials.

This second edition cancels and replaces the first edition, published in 1985.

The purpose of the revision was to bring Part 4 in line with the revision of Part 1 (1994) and Part 2 (1991), in particular the fact that Part 3 has been incorporated in Part 2. This concerns mainly all the cross-references (which were wrong in the previous edition), and therefore the main changes were editorial.