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Miljötålighetsprovning – Del 2-11: Provningsmetoder – Ka: Saltdimma, stationärt tillstånd

*Environmental testing –
Part 2-11: Tests –
Test Ka: Salt mist*

Som svensk standard gäller europastandarden EN IEC 60068-2-11:2021. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 60068-2-11:2021.

Nationellt förord

Europastandarden EN IEC 60068-2-11:2021

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60068-2-11, Fourth edition, 2021 - Environmental testing - Part 2-11: Tests - Test Ka: Salt mist**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 60068-2-11, utgåva 1, 2001, gäller ej fr o m 2024-04-07.

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English Version

**Environmental testing - Part 2-11: Tests - Test Ka: Salt mist
(IEC 60068-2-11:2021)**

Essais d'environnement - Partie 2-11: Essais - Essai Ka:
Brouillard salin
(IEC 60068-2-11:2021)

Umgebungseinflüsse - Teil 2-11: Prüfverfahren - Prüfung
Ka: Salznebel
(IEC 60068-2-11:2021)

This European Standard was approved by CENELEC on 2021-04-07. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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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 104/888/FDIS, future edition 4 of IEC 60068-2-11, prepared by IEC/TC 104 "Environmental conditions, classification and methods of test" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60068-2-11:2021.

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) 2022-01-07
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-04-07

This document supersedes EN 60068-2-11:1999 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60068-2-11:2021 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 60068-2-52 NOTE Harmonized as EN IEC 60068-2-52

ISO 8407 NOTE Harmonized as EN ISO 8407

ISO 9227 NOTE Harmonized as EN ISO 9227

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 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ENVIRONMENTAL TESTING –**Part 2-11: Tests – Test Ka: Salt mist**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60068-2-11 has been prepared by IEC technical committee 104: Environmental conditions, classification and methods of test. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 1981. This edition constitutes a technical revision.

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

- a) the preparation of the salt solution has been modified;
- b) the temperature of the solution for measuring pH has been modified;
- c) the atomizing pressure and water temperature of the saturation tower have been added and are given in Table 1;
- d) test report details have been modified;
- e) examples of typical test apparatus have been added and are given in Annex A;

- f) a method for evaluating corrosivity of the apparatus has been added and is given in Annex B;
- g) a bibliography has been added.

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

Draft	Report on voting
104/888/FDIS	104/892/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/standardsdev/publications.

A list of all parts in the IEC 60068 series, published under the general title *Environmental testing*, 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 "<http://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.

INTRODUCTION

The object of the test specified in this document is to compare the resistance of electrotechnical equipment to deterioration from salt mist.

It is useful for evaluating the quality and uniformity of protective coatings.

The relationship between the deterioration provided by this test and long-term exposure of electrotechnical equipment to salt laden atmospheres cannot be readily determined. Consequently, the test cannot be reliably used to quantify the long-term aging of electrotechnical equipment. However, as the test commonly accelerates deterioration from salt mist, it does provide a useful means of comparing resistance of electrotechnical equipment to deterioration from salt laden atmospheres.

ENVIRONMENTAL TESTING –

Part 2-11: Tests – Test Ka: Salt mist

1 Scope

This part of IEC 60068 specifies a test method for assessing the corrosion resistance of electrotechnical products components, equipment and materials in a salt mist environment. Its objective is to verify that the comparative quality of a metallic material, with or without corrosion protection, is maintained when exposed to salt mist.

This test method is useful for evaluating the quality and the uniformity of coatings applied to protect metals against corrosion. It is particularly useful for detecting discontinuities, such as pores and other defects, in certain metallic, organic, anodic oxide and conversion coatings.

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 60068-1, *Environmental testing – Part 1: General and guidance*