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

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. 06/21

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**EN IEC 60068-2-11**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2021

ICS 19.040

Supersedes EN 60068-2-11:1999 and all of its  
amendments and corrigenda (if any)

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)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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**EN IEC 60068-2-11:2021 (E)****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
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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**

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<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	-



IEC 60068-2-11

Edition 4.0 2021-03

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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

**Essais d'environnement –  
Partie 2-11: Essais – Essai Ka: Brouillard salin**



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IEC 60068-2-11

Edition 4.0 2021-03

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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

**Essais d'environnement –  
Partie 2-11: Essais – Essai Ka: Brouillard salin**

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## ENVIRONMENTAL TESTING –

### Part 2-11: Tests – Test Ka: Salt mist

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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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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- reconfirmed,
- withdrawn,
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- 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*

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