

ICS 19.020

K 04



**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 2423.17-2008/IEC 60068-2-11: 1981

Replace GB/T 2423.17-1993

**Environmental testing for electric and electronic
products - Part 2: Test method - Test Ka: Salt mist**

电工电子产品环境试验

第 2 部分：试验方法 试验 Ka：盐雾

(IEC 60068-2-11: 1981, Basic environmental testing procedures—Part 2:
tests—Test Ka: Salt mist, IDT)

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**Standardization Administration of the People's Republic of
China**

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Foreword

This is Part 17 of GB/T 2423.

This Part is identical to IEC 60068-2-11: 1981 *BASIC ENVIRONMENTAL TESTING PROCEDURES Part 2: Tests — Test Ka: Salt mist*. Following changes have been made:

- Deleted Foreword and Introduction of International Standard;
- Added the Foreword of National Standard;
- Combined Clause 1 and 2 of International Standard.

This Part will replace GB/T 2423.17-1993, comparison with GB/T 2423.17-1993, main differences of this Part are as follows:

- Define the purity requirements for sodium chloride to be used;
- Changed the concentration of saline solution from $(5 \pm 0.1)\%$ to $(5 \pm 1)\%$;
- Added the stipulation on concentration of saline and measurement time for pH value;
- Added the requirements for test reports.

This Standard is proposed and under the jurisdiction of National Technical Committee on Environmental Conditions of Electric and Electronic Products and Environmental Test of Standardization Administration of China.

The responsible drafting organizations are Chinese Electric Apparatus Research Institute and Shanghai Industrial Automation Instrument Research Institute.

The chief drafting staff of this standard includes Yan Jinglian and Wang Jie.

This standard replaces the following historical editions issued:

- GB/T 2423.17-1981, GB/T 2423.17-1993;

Environmental testing for electric and electronic products - Part 2: Test method - Test Ka: Salt mist

1 Scope

The object of this test is to compare the resistance to deterioration from salt mist of specimens of similar construction.

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

The following restrictions shall be taken into account:

- a) the test is unsuitable as a general salt corrosion test;
- b) it is also considered to be unsuitable for the evaluation of individual specimens intended for use in salt-laden atmospheres.

For equipment and components, Test Kb is considered to provide more realistic conditions and to provide means of assessment of individual items. If however, for particular circumstances, the relevant specification requires this test (Ka) to be applied to individual specimens for qualification purposes, then the specimens should be tested as part of the overall assembly or equipment in which they are to be used and be complete with any protection devices (cases, covers, shields, etc.), as in practice.

2 Test apparatus

2.1 Test chamber

The chamber for this test shall be constructed of such materials that will not influence the corrosive effects of the salt mist.

The detailed construction of the chamber, including the method of producing the mist, is optional provided that:

- a) the conditions in the chamber are within the limits specified;
- b) a sufficiently large volume with constant, homogeneous conditions (not affected by

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