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PEOPLE'S REPUBLIC OF CHINA

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GB/T 2423.17-2008 / IEC 6008-2-11: 1981

Replacing GB/T 2423.17-1993

Environmental Testing for Electric and Electronic Products – Part 2: Test Methods – Test Ka: Salt Mist

(IEC 60068-2-11:1981, Basic Environmental
Testing Procedures – Part 2: Tests – Test Ka: Salt Mist, IDT)

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Foreword

This Part belongs to Part 17 of GB/T 2423.

This Part equivalently adopts IEC 60068-2-11:1981 Basic Environmental Testing Procedures – Part 2: Tests – Test Ka: Salt Mist (English Edition). It mainly has the following editorial changes:

- Delete the foreword and introduction of international standard;
- Add the foreword of national standard;
- Combine the Chapter 1 and Chapter 2 of international standard.

This Part replaced GB/T 2423.17-1993; compared with the latter, their major differences are as follows:

- Confirm the purity requirements for the applied sodium chloride;
- Change the concentration of salt solution from original $(5\pm0.1)\%$ to $(5\pm1)\%$;
- Add the time provisions for determining the solution concentration and pH value;
- Add the requirements for test report.

This Part was proposed and under the jurisdiction of National Technical Committee for Standardization of Electric and Electronic Products Environmental Conditions and Environmental Test.

Drafting organizations of this Part: China Electrical Apparatus Research Institute, and Shanghai Institute of process Automation Instrumentation.

Chief drafting staffs of this Part: Yan Jinglian, and Wang Jie.

The historical editions replaced by this Part are as follows:

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

Environmental Testing for Electric and Electronic Products – Part 2: Test Methods – 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.

When using, 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 tolerance specified;
- b) a sufficiently large volume with constant, homogeneous conditions (not affected by turbulence) is available; these conditions should not be influenced by the specimens under test;

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