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

中华人民共和国国家标准

GB/T 2423.1-2008/IEC 60068-2-1: 2007

Replace GB/T 2423.1-2001

**Environmental testing for electric and electronic
products—Part 2: Test methods—Tests A: Cold**

电工电子产品环境试验

第 2 部分：试验方法 试验 A：低温

(IEC 60068-2-1: 2007, Environmental Testing—Part 2-1: Tests—Test A: Cold, IDT)

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China**

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Foreword

GB/T 2423.1 is part 1 of GB/T 2423, the rest parts of GB/T 2423 see informative annex NA.

This part is identical to IEC 60068-2-1: 2007 *Environmental Testing—Part 2-1: Tests—Test A: Cold* (English version).

Comparison with IEC 60068-2-1: 2007, main changes of this part are as follows:

- Changed the name of this part as *Environmental testing for electric and electronic products—Part 2: Test methods—Tests A: Cold*;
- Changed the “this Standard” as “this part”;
- Deleted the foreword of IEC 60068-2-1: 2007;
- Deleted the introduction of IEC 60068-2-1: 2007, transferred the contents into Annex NB;
- Added the rest parts of GB/T 2423 into informative annex (see Annex NA);
- Added the informative “Test A: cold and test B: the relations between classification and small letter of high temperature” see annex NB;
- Deleted “for non-heat dissipation test specimen,” in section 1 of clause 1;
- Transferred the last two paragraphs in clause 1 into article 4.1;
- Changed the “non heat-dissipating specimen” as “test of non heat-dissipating specimen” in article 4.3;
- Changed the last one paragraph in 6.2 as Note.

For clarity, above revisions have been added the footnote in relevant position.

This part will replace GB/T 2423.1-2001 *Environmental testing for electric and electronic and electronic products--Part 2: Test methods--Tests A: Cold*, comparison with previous edition, main changes are as follows:

- Deleted test Aa: Cold test of jump in temperature of non heat-dissipating specimen;
- Deleted the annex A, B, C, D and E;
- Added test Ae: Cold test of temperature jump of heat-dissipating specimen—test specimen should be charged with electricity during testing.

Annex NA and NB of this Standard are informative annex.

This Standard is proposed and under the jurisdiction of National Technical Committee 8 on Environmental Conditions of Electric and Electronic Products and Environmental Test of Standardization Administration of China.

The responsible drafting organizations is Guangzhou Electric Apparatus Research Institute.

The chief drafting staff of this standard includes Zhang Zhiyong

This standard replaces the following historical editions issued:

- GB/T 2423.1-1981, GB/T 2423.1-1989, GB/T 2423.1-2001.

Environmental testing for electric and electronic products—Part 2: Test methods—Tests A: Cold

1 Scope

This part of GB/T 2423 deals with cold tests applicable to both non heat-dissipating and heat-dissipating specimens¹⁾. Test Ae has been added primarily for testing equipment that requires being operational throughout the test, including the conditioning periods.

The object of the cold test is limited to the determination of the ability of components, equipment or other articles to be used, transported or stored at low temperature.

Cold tests cover by this standard do not enable the ability of specimens to withstand or operate during the temperature variations to be assessed. In this case, it would be necessary to use GB/T 2423.22.

The cold tests are subdivided as follows:

- Cold tests for non heat-dissipating specimens
 - with gradual change of temperature, Ab;
- Cold test for heat-dissipating specimens
 - with gradual change of temperature, Ad,
 - with gradual change of temperature, specimen powered throughout, Ae.

The procedures given in this standard are normally intended for specimens that achieve temperature stability during the performance of the test procedure.

¹⁾ There is “For non heat-dissipating specimens” in IEC 60068-2-1: 2007.



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