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

GB/T 2423.2-2008

**Environmental testing for electric and electronic products - Part
2: Test methods - Tests B: Dry heat
(English Translation)**

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Foreword

GB/T 2423.2 is part 2 of GB/T 2423; the rest parts of GB/T 2423 are shown in Annex NA.

This Part is identical to IEC 60068-2-2:2007 Environmental Testing - Part 2-1. Tests - Test B. Dry heat (English version).

Compared with IEC 60068-2-2:2007, main changes of this Part are as follows.

- Change the name of this Part to be Environmental testing for electric and electronic products - Part 2. Test methods - Tests B. Dry heat;
- Change "this Standard" to be "this Part";
- Delete the foreword of IEC 60068-2-2:2007;
- Delete the introduction of IEC 60068-2-2:2007; transferred the contents into Annex NB;
- Add informative annex "Constituent parts of GB/T 2423" (see Annex NA);
- Add informative annex "Test A. cold and test B. the relations between classification and small letter of high temperature" (see annex NB);
- Delete "for non-heat dissipation test specimen" in section 1 of clause 1;
- Add the reference GB/T 2423.22 in normative reference of clause 2;
- Change the "non heat-dissipating specimen" as "test of non heat-dissipating specimen" in article 4.3;
- Change the "absolute humidity" as "humidity" in 6.8.2.
- For clarity, above revisions have been added with footnotes in relevant positions.

This Part replaces GB/T 2423.2-2001 Environmental testing for electric and electronic and

electronic products - Part 2. Test methods - Tests B. Dry heat. Comparison with previous edition, main changes are as follows.

- Delete test Ba. Cold test of jump in temperature of non heat-dissipating specimen;
- Delete test Bc. Dry heat test of jump in temperature of dissipating specimen;
- Delete the annex A, B, C, D, E and F;
- Add test Bc. Cold test of temperature jump of heat-dissipating specimen - test specimen should be charged with electricity during testing.

Annex NA and NB of this Part are informative.

This Part was proposed and under the jurisdiction of National Technical Committee (SAC/TC 8) on Environmental Conditions of Electric and Electronic Products and Environmental Test of Standardization Administration of China.

The responsible drafting organization is Guangzhou Electric Apparatus Research Institute.

The chief drafting staff of this Part. Zhang Zhiyong.

The historical editions replaced by this Part are.

- GB/T 2423.2-1981, GB/T 2423.2-1989, GB/T 2423.2-2001.

1 Scope

This Part of GB/T 2423 deals with dry heat tests applicable both to heat-dissipating and non heat dissipating specimens. Tests Bb and Bd do not deviate essentially from earlier issues.

2 Normative References

The articles contained in the following documents have become part of this Part of GB/T

2423 when they are quoted herein. For the dated documents so quoted, all the

modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 2421 Environmental testing for electric and electronic products - Part 1.

General and guidance (GB/T 2421-1999, idt IEC 60068-1.1988)

GB/T 2423.22 Environmental testing for electric and electronic products - Part 2. Test methods Test N. Change of temperature (GB/T 2423.22-2002, IEC 60068-2-14.1984, IDT)

GB/T 2424.1 Environmental testing for electric and electronic products - Guidance for high temperature and low temperature tests (GB/T 2424.1-2005, IEC 60068-3-1.1974, IDT)

GB/T 2424.5 Environmental tests for electric and electronic products - Confirmation of the performance of temperature chambers (GB/T 2424.5-2006, IEC 60068-3-5.2001, IDT)

3 Terms and definitions

For the purposes of this document, the definitions given in GB/T 2422, as well as the following definitions, apply.

3.1

low air velocity in the working space

velocity of conditioning airflow within a working space which is sufficient to maintain conditions but low enough so that the temperature at any point on the test specimen is not reduced by more than 5 K by the influence of the circulation of the air (if possible, not more than 0.5 m/s).

4 Application of tests for non heat-dissipating specimens versus tests for heat-dissipating specimens

Temperature chamber(s) are constructed and verified in accordance with specifications GB/T 2424.5 and GB/T 2424.7.

5 Test description

Tests Bb, Bd, and Be are similar. Differences are noted in Subclauses 5.2.2, 5.3.2 and 5.4.2.

6 Test procedure

GB/T 2424.5 provides guidance for the confirmation of performance of temperature test chambers. GB/T 2424.1 provides general guidance for the performance of Tests A and B.

7 Information to be given in the relevant specification

When this test is included in the relevant specification, the following details shall be given as far as they are applicable.

8 Information to be given in the test report

As a minimum the test report shall show the following information.

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