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NATIONAL STANDARD OF THE
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GB/T 2423.16-2008 / IEC 60068-2-10:2005

Replacing GB/T 2423.16-1999

**Environmental testing for electric and electronic
products - Part 2: Test methods - Test J and guidance:
Mold growth**

电工电子产品环境试验 第2部分：试验方法 试验J及导则：长霉
(IEC 60068-2-10:2005, Environmental testing - Part 2-10: Tests - Test J
and guidance: Mould growth, IDT)

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Foreword

GB/T 2423.16 is Part 16 of GB/T 2423. See the informative appendix NA for the composition of GB/T 2423.

This Part identically adopts IEC 60068-2-10:2005 "Environmental testing - Part 2-10: Tests - Test J and guidance: Mould growth" (English version). The main editorial modifications are as follows:

- deleted the foreword of IEC 60068-2-10:2005;
- add the foreword to this Part;
- add the introduction of the list of normative references;
- refer the national standards that correspond to the international standards;
- add the corresponding strain preservation number of China Institute of Microbiology in Table 1 of 6.1;
- there are omissions in the article number in Annex C of IEC 60068-2-10:2005, which is now added with a footnote;
- in D.2, add a footnote:2) The original text of IEC is "Pressure is 10kPa (1bar)". Because 1bar is 100kPa, the original text is incorrect, so it is corrected in this Part.

This Part replaces GB/T 2423.16-1999 "Environmental testing for electric and electronic products - Part 2: Tests - Test J and guidance: Mould growth". Compared with it, the main changes in this Part are as follows:

- add Figure B.1;
- replace the two test fungi by another two test fungi;
- specify the spore concentration of a single test fungus;
- prescribe the initial state of the sample through damp and heat storage;
- use ultrasonic atomization of spore suspension as a recommended method of inoculation;
- shorten the duration of cultivation from 84d to 56d;
- divide the degree of mildew growth 2 into two grades 2a and 2b;
- Annex B gives detailed vaccination methods;

Environmental testing for electric and electronic products - Part 2: Test methods - Test J and guidance: Mold growth

1 Scope

This Part of GB/T 2423 provides a test method for determining the extent to which electrotechnical products support mould growth and how any mould growth may affect the performance and other relevant properties of the product.

Since mould growth conditions include high relative humidity, the test is applicable to electrotechnical products intended for transportation, storage and use under humid conditions over a period of some days at least.

2 Normative references

The provisions in following documents become the provisions of this Part of GB/T 2423 through reference in this Part of GB/T 2423. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 27025-2008, *General requirements for the competence of testing and calibration laboratories* (ISO/IEC 17025:2005, IDT)

ISO 846:1997, *Plastics - Evaluation of the action of microorganisms*

MIL-STD-810 F:2000, *Method 508.5 Fungus*

Laboratory Biosafety Manual 2nd Ed., WHO 1993, ISBN 92 4 1544503

3 General description

This test covers the inoculation of electrotechnical products with a selection of mould spores followed by a period of incubation under conditions which promote spore germination and the growth of mould.

Two variations of the test are given. Variant 1 specifies inoculation of the

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