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

GB/T 2423.20-2014

**Environmental testing - Part 2: Test methods - Test Kd:
Hydrogen sulphide test for contacts and connections**

环境试验 第2部分：试验方法 试验Kd：接触点和连接件的硫化氢试验
(English Translation)

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Foreword

This section GB/T 2423 Part 20, part of the GB/T 2423 standard, see informative Annex NA.

This section drafted in accordance with GB/T 1.1-2009 given rules.

2003 (2nd edition) "Environmental testing - Part 2-43.. Experimental tests of this translation method using equivalent IEC 60068-2-43 use Kd. contacts and connections of hydrogen sulfide test. " this part of IEC 60068-2-43:2003 (2nd edition), compared mainly to do the following editorial changes.

--- This part of the name changed to "Environmental Testing Part 2. Test methods - Test Kd. contacts and connections of hydrogen sulfide test";

--- IEC 60068-2-43:2003 (2nd edition) Chapter 1 and the references mentioned IEC 60355. 1971, due to the IEC 60355.

1971 was repealed, in order to make better use of the standard, this section refers to GB/T 2424.10-2012;

--- Increase the informative appendix NA.

This part of the National Electrical and Electronic Products Environmental conditions and environmental tests for Standardization Technical Committee (SAC/TC8) and focal points.

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1 Scope and purpose

The test.

--- Used for the evaluation of contacts and connections of silver and silver alloy provides an accelerated test method for color;

--- Particularly suitable for comparison test;

--- Not as a general corrosion test in that it can be unpredictable contacts and connections in industrial atmospheric corrosion behavior.

Note: In view of the information obtained is limited accelerated corrosion test, should pay special attention to this test guide GB/T 2424.12 is given. And with reference to GB/T 2424.10.

The purpose of this test is.

a) to determine the effects of exposure to hydrogen sulphide-containing atmosphere point to the following materials and contact characteristics of the connector.

--- Of silver or silver alloy;

--- Other protective layer of silver;

--- Covering the metal with a silver or silver alloy.

b) Check the tightness and effectiveness of the above-mentioned material made solderless connector.

In all tests, mainly hydrogen sulfide containing atmosphere change value caused by the exposure of the contact resistance performance according to the test sample Evaluation.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

IEC 60512-2-1:2002 Connectors for electronic equipment - Tests and measurements - Part 2-1. Electrical continuity and contact resistance tests again Test 2a. contact resistance millivolt Act (Connectorsforelectronicequipment-Testsandmeasurements-Part 2-1.

Electricalcontinuityandcontactresistancetests-Test2a.
Contactresistance-Milivoltlevelmethod)

3.1 Overview

Test equipment including climate system, test box, gas delivery systems, and gas concentration measurement apparatus, see Appendix A.

3.2 Test Chamber

Annex chamber and materials used should not absorb or react with hydrogen sulfide, and does not affect the effect of corrosion test gas. gas

Walkout chamber by a sufficiently large diameter pipe, the total flow through the gas chamber enables gas tank replacement 3-5 times per hour. box Exhaust gas is allowed to enter within the laboratory.

The specific requirements of the chamber structure (including means of generating test gas) must meet the following conditions.

- a) within the scope of the conditions of the test chamber space where the test sample should be specified;
- b) should not be directly subjected to the test sample into the impact of air;