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

GB/T 2423.54-2022

**Environmental testing-Part 2: Test methods-Test Xc: Fluid
contamination**

环境试验 第2部分：试验方法 试验Xc:流体污染

(English Translation)

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Foreword

This Part is a part of GB/T 2423 "Environmental testing for electric and electronic products". This Part identically adopts IEC 60068-2-74.1999 "Environmental testing - Part 2. Tests - Test Xc. Fluid contamination" (English version).

The technical content of this Part is same with IEC 60068-2-74.1999 "Environmental testing - Part 2. Tests - Test Xc. Fluid contamination" (English version). The writing format and expression way are in accordance with relevant provisions of GB/T 1.1-

2000 and GB/T 20000.2-2001.

For ease of use, the following editorial modifications are made to this Part of IEC 60068-2-74.1999.

a) to be consistent with the names of GB/T 2423 standards, this Part uses the Chinese translation of the name of IEC 60068-2-74.1999, that is, "Environmental testing for electric and electronic products - Part 2. Test methods - Test Xc. Fluid

contamination";

b) deleted the foreword of IEC 60068-2-74.1999.

Annex A of this Part is informative.

This Part was proposed by Ministry of Information Industry of the People's Republic of China.

This Part shall be under the jurisdiction of National Technical Committee on Electrical and Electronic Products Environmental Technology of Standardization Administration of China.

The drafting organizations of this Part. The Fifth Electronic Research Institute of the Ministry of Information Industry.

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Environmental testing for electric and electronic products -

Part 2. Test methods - Test Xc. Fluid contamination

1 Scope

This Part of GB/T 2423 gives a method of test which provides a standard procedure to determine the ability of components, equipment or their constituent materials, hereinafter referred to as specimen, to withstand accidental contact with fluids, without being unacceptably affected.

The fluids listed in Part are representative of those commonly encountered in operational applications. It is not intended that a specimen should be exposed to all, or even any of them. Nor is the list intended to be complete; fluids not listed and for which a test is appropriate should be included in the relevant specification. Guidance is given in annex A on the choice of test fluids, specimens and severities.

These tests are not intended to demonstrate the suitability of components or equipment to perform in continuous contact with a fluid, e.g., an immersed fuel pump. Nor are they a test to demonstrate immunity from electrolytic corrosion.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of GB/T 2423. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this Part are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

ISO 1817.1985, Rubber, vulcanized - Determination of the effect of liquids

3.1 Specification of test fluid

The relevant specification (see clause 12) shall specify the required test fluids which shall wherever possible be selected from the list given in table 1. Each fluid has been specified as being representative of a group of fluids. (See clause A.2.)

The relevant specification shall also specify any additional fluids not listed in table 1

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