

ICS 19.040
CCS K 04



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

GB/T 2423.66-2025

**Environmental testing - Part 2: Test methods - Test: Combined
temperature/humidity/static load**

环境试验 第2部分：试验方法 试验：温度/湿度/静负载综合

Issued on: August 1, 2025

Implemented on: February 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is Part 66 of GB/T 2423. For the published parts of GB/T 2423, see Appendix A.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the National Technical Committee for Standardization of Environmental Conditions and Environmental Testing for Electrical and Electronic Products (SAC/TC8).

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Introduction

GB/T 2423 series of standards include basic information on environmental tests and their severity levels, which are used to evaluate the performance of test samples under the expected storage conditions.

In this series of standards, each document introduces a set of tests and applications.

The GB/T 2423 series of standards aims to provide product specification developers and product testers with a series of unified and repeatable climatic, mechanical and comprehensive It includes standard atmospheric conditions for measurement and testing.

Since 1981, more than 50 GB/T 2423 series standards have been issued and implemented. There are 52 GB/T 2423 standards in existence, 42 of which are Items adopt the IEC 60068-2 series of standards. For details of the current GB/T 2423 series of standards, please see Appendix A.

This document describes a comprehensive test of the effects of temperature, humidity, and static load environmental factors on polymer materials and components of electrical and electronic equipment. Test method.

Environmental testing Part 2: Test methods Test. Temperature/Humidity/Static Load Comprehensive

1 Scope

This document describes the temperature/humidity/static load comprehensive environmental test method, including test samples, test equipment and test conditions. information.

This document is applicable to the evaluation of polymer materials and components of electrical and electronic equipment under the combined effects of temperature, humidity and static load.

Adaptability, including changes in mechanical or other properties.

2 Normative references

GB/T 2422-2012

GB/T 2423.1

GB/T 2423.2

GB/T 2423.3

3 Terms and Definitions

The terms and definitions defined in GB/T 2422-2012 and the following apply to this document.

3.1 static loads

Loads that do not vary with time or loads that vary slowly with time.

Note. Common load forms include tension, compression and bending.

4 General description of the test

This test is a comprehensive environmental test consisting of temperature and humidity climate conditions and static load mechanical environmental conditions.

The temperature test includes low temperature, high temperature and constant humidity and heat, etc. The specific test methods can be found in the relevant parts of the GB/T 2423 series of standards or relevant specifications.

Static loads include tension, compression and bending. The type and size of static loads are related to the loads to which the test specimen is subjected in service.

According to the service environment conditions of the test sample, select the corresponding temperature, humidity climate environment conditions and static load mechanical environment conditions to test the test sample.

Table 1 shows some combinations of temperature, humidity and static load comprehensive environmental tests.