

ICS 19.020

CCS K 04



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

GB/T 4798.1-2019

**Classification of environmental conditions -- Classification of
groups of environmental parameters and their severities -- Part
1: Storage**

Issued on: August 30, 2019

Implemented on: March 1, 2020

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

5.6 and 5.7);

1 Scope

2 Normative references

3 Terms and definitions

Foreword

GB/T 4798 currently includes the following sections.

--- GB/T 4798.1 Classification of environmental conditions - Classification of environmental parameter groups and their severity classification - Part 1. Storage;

--- GB/T 4798.2 Environmental conditions for the application of electrical and electronic products - Part 2. Transport;

--- GB/T 4798.3 Environmental conditions for the application of electric and electronic products - Part 3

--- GB/T 4798.4 Environmental conditions for the application of electric and electronic products - Part 4.

--- GB/T 4798.5 Environmental conditions for the application of electric and electronic products - Part 5. Use of ground vehicles;

---GB/T 4798.6 Environmental condition classification Environmental parameter group classification and its severity classification marine;

--- GB/T 4798.7 Environmental conditions for the application of electric and electronic products - Part 7. Carrying and non-fixed use;

---GB/T 4798.9 Environmental condition classification Environmental parameter group classification and its severity degree The microclimate inside the product;

---GB/T 4798.10 Introduction to environmental conditions for the application of electrical and electronic products.

This part is the first part of GB/T 4798.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 4798.1-2005 "Electrical and Electronic Products Application Environmental Conditions Part 1. Storage". This part and

Compared with GB/T 4798.1-2005, the main technical changes are as follows.

- The standard name was changed to "Environmental Condition Classification Environmental Parameter Group Classification and Its Severity Classification Part 1. Storage";
- Added Chapter 3 "Terms and Definitions", and the subsequent chapter number changes accordingly;
- Added a description of "impacts on short-term extreme environmental conditions" and "long-term effects on non-extreme environmental stresses" (see Chapter 4);
- "Climatic environmental conditions" "Mechanical active material conditions" "Mechanical environmental conditions", replacing the old classification with a new classification (see 5.2,

5.6 and 5.7);

- The environmental parameters of "climate and environmental conditions" have increased "snow loading" and "great wind" (see Table 1);
- The environmental parameters of "special climatic and environmental conditions" have increased "solar radiation" and "snow loading" (see Table 2);
- Description of different graded environmental conditions is adjusted from the original Appendix A to the standard text;
- Appendix A was changed to "chemical active substances";
- Removed Standard Appendix B, Appendix C, Appendix D and Appendix E (see Appendix B to Appendix E of GB/T 4798.1-2005).

This section uses the translation method equivalent to IEC 60721-3-1.2018 "Environmental Condition Classification Section 3-1. Environmental Parameter Group Classification and Its rigorous degree of grading storage.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

- GB/T 4796-2017 Environmental conditions classification of environmental parameters and its severity (IEC 60721-1.2002, IDT).

This section has made the following editorial changes.

- The name of this section is changed to "Environmental Condition Classification Environmental Parameter Group Classification and Its Severity Classification Part 1. Storage".

This part is proposed and managed by the National Technical Committee for Standardization of Electrical and Electronic Environment and Environmental Testing

(SAC/TC8).

This section drafted by. China Electric Apparatus Research Institute Co., Ltd., Shenzhen Institute of Metrology and Quality Inspection, Shenzhen Youruite Testing

Technology Co., Ltd., State Grid Electric Power Research Institute Co., Ltd., Aerospace Science and Technology Defense Technology Research and Test Center, Guangzhou Standardization Research Institute,

Ningbo Ouzhi Electrical Technology Co., Ltd.

1 Scope

This part of GB/T 4798 applies to the environmental parameters of the stored product and the grading of its severity. The product can be stored with package.

The environmental conditions referred to in this section are limited to conditions that directly affect the product and its basic properties. These conditions are not specifically described in this section.

The impact of the product.

This section does not cover the direct impact of fire or explosion on the product.

Fixed use, carrying and non-fixed use, transport conditions for vehicles and ships are described in other sections of IEC 60721-3.

This section specifies the environmental conditions that the product may encounter during storage. Environmental conditions during transportation and loading

Described in IEC 60721-3-2.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC 60721-1 Classification of environmental conditions - Part 1. Environmental parameters and their classification (Classification of environmental conditions - Part 1. Environmental parameters and their severities)

3 Terms and definitions

The following terms and definitions as defined by IEC 60721-1 apply to this document.

The main ISO and IEC technical data used in this section are as follows.

3.1

Closed place enclosed location

All faces are covered, in such a way as to provide a degree of protection to the location or structure.

3.2

Non-weather-protected location

A place that cannot directly prevent the weather from being affected.

3.3

Open space open-air location

An open place that cannot prevent the influence of meteorological conditions.

3.4

Storage storage

The product is not placed in a certain place.