



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

GB/T 4798.2-2021

**Classification of environmental conditions - Classification of
groups of environmental parameters and their severities - Part
2: Transportation and handling**

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Foreword

This document is drafted in accordance with GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

The document is Part 2 of GB/T 4798 "Classification of environmental conditions - Classification of groups of environmental parameters and their severities". GB/T 4798 has issued the following parts:

- GB/T 4798.1-2019 Classification of environmental conditions -
Classification of groups of environmental parameters and their severities -
Part 1: Storage;
- GB/T 4798.2-2021 Classification of environmental conditions -
Classification of groups of environmental parameters and their severities -
Part 2: Transportation and handling;
- GB/T 4798.3-2007 Environmental conditions existing in the application of
electric and electronic products - Part 3: Stationary use at weather-
protected locations;
- GB/T 4798.4-2007 Environmental conditions existing in the application of
electric and electronic products - Section 4: Stationary use at non-weather-
protected locations;
- GB/T 4798.5-2007 Environmental conditions existing in the application of
electric and electronic products - Section 5: Ground vehicle installations;
- GB/T 4798.6-2012 Classification of environmental conditions -
Classification of groups of environmental parameters and their severities -
Ship environment;
- GB/T 4798.7-2007 Environmental conditions existing in the application of
electric and electronic products - Part 7: Portable and non-stationary use;
- GB/T 4798.9-2012 Classification of environmental conditions -
Classification of groups of environmental parameters and their severities -
Microclimates inside products;
- GB/T 4798.10-2006 Environmental conditions existing in the application of
electric and electronic products - Guidance.

This document replaces GB/T 4798.2-2008 "Environmental conditions existing in the application of electric and electronic products - Part 2: Transportation". Compared with GB/T 4798.2-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) In "Scope", add groups of environmental parameters and their severities of "handling" (see Clause 1);
- b) In Clause 3 "Terms and definitions", modify the terms "weather-protected" and "non-weather-protected" (see 3.1 and 3.2; 3.1 and 3.2 of the 2008 edition);
- c) Add the description of "the effects of short-term extreme environmental conditions" and "the effect of long-term subjection to non-extreme environmental stresses" (see Clause 4);
- d) For "K Climatic conditions", "S Mechanically active substances" and "M Mechanical conditions", replace old classes with new classes (see 5.2,

5.5 and 5.6; Annex A of the 2008 edition);

- e) Add "snow load", "low rain temperature", "formation of ice and frost (including freeze-thaw)", and "temperature shock" to the environmental parameters of "K Climatic conditions" (see Table 1);
- f) Adjust the description of different classifications of environmental conditions from the previous Annex A to the main text of the document (see Clause 5);
- g) Delete the figure of "Typical shock response spectrum" (see Figure 1 of the 2008 edition); add the figures of "Consolidation of vibration conditions" and "Consolidation of mechanical conditions" (see Figure 1 and Figure 2);
- h) Change Annex A to "Chemically active substances";
- i) Delete Annex B and Annex C of the document (see Annex B and Annex C of the 2008 edition).

This document, using translation method, is identical to IEC 60721-3-2:2018 "Classification of environmental conditions - Part 3-2: Classification of groups of environmental parameters and their severities - Transportation and handling". China's document which has a consistent correspondence with the international document normatively referenced in this document is as follows:

- GB/T 4796-2017 Classification of environmental conditions - Environmental parameters and their severities (IEC 60721-1:2002, IDT).

This document has made the following editorial change:

- Change the document name to "Classification of environmental conditions
- Classification of groups of environmental parameters and their severities
- Part 2: Transportation and handling".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by and shall be under the jurisdiction of National Technical Committee 8 on Environmental Conditions of Electric and Electronic Products and Environmental Test of Standardization Administration of China (SAC/TC 8).

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