



# INTERNATIONAL STANDARD

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**Environmental testing -  
Part 2-2: Tests - Test B: Dry heat**



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## Environmental testing - Part 2-2: Tests - Test B: Dry heat

### FOREWORD

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IEC 60068-2-2 has been prepared by IEC technical committee 104: Environmental conditions, classification and methods of test. It is an International Standard.

This sixth edition cancels and replaces the fifth edition published in 2007. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) revision of the introduction and scope;
- b) inclusion of new figures and symbols for clarification purposes;
- c) clarification of the test procedure for ascertaining high or low air velocity in the test chamber;
- d) clarification of the requirements for measuring points around, on or in specimens;
- e) reintroduction of the nomogram procedure for the correction of the conditioning temperature when testing with high air velocity (Test Bd and Test Be);

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- g) revision of standardized requirements for the relevant specification and test report;
- h) inclusion of the advantages and disadvantages of the testing procedures.

The text of this International Standard is based on the following documents:

Draft	Report on voting
104/1108/FDIS	104/1128/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all the parts of the IEC 60068 series, under the general title *Environmental testing*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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The working ranges and performance of equipment and machinery can be significantly affected or limited by ambient temperatures. The degree of this influence can depend on temperature distributions of the environment as well as temperatures on components of the device itself. In order to determine the existing degree of influence and to ensure that the device is suitably designed for its ambient conditions, tests are carried out with cold (IEC 60068-2-1) or dry heat, or both. During the test detailed in this document, it will be taken into account whether the tested device itself emits heat or not.

Reducing the air flow within the test chamber can be required to reduce the air velocity at heat-dissipating specimens. This can be achieved by using air baffles or adjusting the air flow of the test chamber. If the reduction of air velocity is not practical or possible due to the required test conditions, this document provides an alternative test procedure without the need for adjustable air flow as well as guidance on selecting the applicable test procedure.

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This part of IEC 60068 specifies dry heat temperature tests that are applicable to non-heat-dissipating and heat-dissipating specimens, to determine the ability of components, equipment or other articles to be used, transported or stored at high temperature.

This document is applicable to energized as well as non-energized specimens that normally achieve temperature stability during the test. The specimens can be subject to test in packed condition (to simulate transportation and storage) or in unpacked condition (to simulate use).

This document does not specify tests to determine the impact of temperature changes on specimens.

## **2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-1, *Environmental testing - Part 1: General and guidance*

IEC 60068-5-2, *Environmental testing - Part 5-2: Guide to drafting of test methods - Terms and definitions*

IEC 60721 (all parts), *Classification of environmental conditions*