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INDUSTRIAL  
STANDARD

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Japanese Standards Association

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**JIS C 0031** : 1995  
(IEC 68-2-41 : 1976)

**Environmental testing  
Part 2 : Tests, Test Z/BM :  
Combined dry heat/low  
air pressure tests**

The code number of this Standard  
changed from JIS C 0031 to the  
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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,  
the original JIS is to be the final authority.

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## Environmental testing

### Part 2: Tests, Test Z/BM:

### Combined dry heat/low air pressure tests

#### Foreword as Japanese Industrial Standard

This Japanese Industrial Standard has been prepared based on IEC 68-2-41, *Basic environmental testing procedures Part 2: Tests, Test Z/BM: Combined dry heat/low air pressure tests*, published in 1976 as the first edition and Amendment 1 (1983) without modifying the technical contents. The Amendment is, however, compiled into the text.

The matters with underlines (dotted line) do not appear in the original International Standard.

#### 1 Scope and introduction

**1.1 Scope and general** This Japanese Industrial Standard deals with combined dry heat [with rapid or gradual change of temperature (see 8.2.2 and 8.2.8)] and low air pressure tests for both heat-dissipating and non-heat-dissipating specimens.

The object of the test is to determine the ability of components or equipments or other articles to be stored and used under a simultaneous combination of high temperature and low air pressure.

This combined test should normally be used only if the effects of combined environments will not be revealed by subjecting the specimen to single environments. The procedures given in this Standard are limited to the case of specimens which achieve temperature stability during the test procedure.

In the case of testing heat-dissipating specimens, this procedure applies only to the testing of one specimen at a time.

**1.2 Low air pressure** The test procedure applies to air pressure down to about 1 kPa (10 mbar). At air pressures below 1 kPa (10 mbar), phenomena not taken into account in the design of this test procedure become important.

The relationship between altitude, pressure and temperature has not been indicated in this Standard. Such data should be obtained from special Standards.

#### 1.3 Temperature

**1.3.1** The guidance given in the introduction to 2 and 3 of JIS C 0021, *Basic environmental testing procedures Part 2: Tests, Test B: Dry heat* shall apply.

Remarks: Non-heat-dissipating specimens are defined as in 4 of JIS 0010 : 1993, *Environmental testing Part 1: General and guidance*.

The measurements of hottest spot temperature must not be made at reduced pressure.