



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

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
following from 20 March 2004.

JIS C 60068-2-41:1995

ICS 19.080; 19.040

Descriptors : electrical equipment, electrical components, electronic equipment and components, environmental testing, dry-heat tests, low-pressure tests

Reference number : JIS C 0031 : 1995 (E)

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:

Date of Establishment: 1990-01-01

Date of Revision: 1995-06-01

Date of Public Notice in Official Gazette: 1995-06-01

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Electronics

JIS C 0031 : 1995, First English edition published in 1999-11

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

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Printed in Japan

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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.