

JIS

JAPANESE INDUSTRIAL STANDARD

Basic Environmental Testing Procedures Part 2: Tests, Test Ca: Damp Heat, Steady State

JIS C 0022—1987

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Basic Environmental Testing Procedures
Part 2: Tests, Test Ca: Damp Heat, Steady State

C 60068-2-3:1987

1. Object

The object of this test is to determine the suitability of components, equipment or other articles for use and storage under conditions of high relative humidity.

This test is primarily intended to permit the observation of the effects of high humidity at constant temperature over a prescribed period.

Informative Reference: This Standard is prepared based on IEC 68-2-3 Basic environmental testing procedures, Part 2: Tests, Test Ca: Damp heat, steady state (1969).

2. Testing Chamber

2.1 The chamber shall be so constructed that:

- (1) The temperature and humidity of the chamber are monitored by sensing devices located in the working space.
- (2) The temperature and relative humidity in the working space can be maintained at $40 \pm 2^{\circ}\text{C}$ and $93 \pm \frac{2}{3} \%$ respectively.

Remark: The total temperature tolerance of $\pm 2^{\circ}\text{C}$ is intended to take account of absolute errors in the measurement, slow changes of temperature, and temperature differences in the working space. However, in order to maintain the relative humidity within the required tolerances it is necessary to keep the temperature difference between any two points in the working space at any moment within narrower limits. The required humidity conditions will not be kept if such temperature differences exceed 1°C . It may also be necessary to keep short-term temperature fluctuations within narrow limits.

- (3) Condensed water is continuously drained from the chamber and not used again until it has been re-purified.
- (4) When the humidity conditions are obtained by using an injection-type ⁽¹⁾ chamber, the water shall have a resistivity not less than $500 \Omega \text{ m}$.

Note ⁽¹⁾ Injection-type chamber means a test chamber of such type that water vapour is blown into working space of chamber.

Corresponding International Standard:

IEC 68-2-3 Basic environmental testing procedures, Part 2: Tests, Test Ca: Damp heat, steady state (1969)