



**SLOVENSKI STANDARD**  
**SIST EN 60068-2-13:2001**  
**01-september-2001**

---

**Environmental testing - Part 2: Tests - Test M: Low air pressure**

Environmental testing -- Part 2: Tests - Test M: Low air pressure

Umweltprüfungen -- Teil 2: Prüfungen - Prüfgruppe M: Niedriger Luftdruck

Essais d'environnement -- Partie 2: Essais - Essai M: Basse pression atmosphérique

**Ta slovenski standard je istoveten z: EN 60068-2-13:1999**

[SIST EN 60068-2-13:2001](https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001)

<https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001>

**ICS:**

|        |                               |                       |
|--------|-------------------------------|-----------------------|
| 19.040 | Preskušanje v zvezi z okoljem | Environmental testing |
|--------|-------------------------------|-----------------------|

**SIST EN 60068-2-13:2001**

**en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60068-2-13:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001>

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60068-2-13**

April 1999

ICS 19.040

Supersedes HD 323.2.13 S1:1987

English version

**Environmental testing**  
**Part 2: Tests - Test M: Low air pressure**  
(IEC 60068-2-13:1983)

Essais d'environnement  
Partie 2: Essais - Essai M: Basse  
pression atmosphérique  
(CEI 60068-2-13:1983)

Umweltprüfungen  
Teil 2: Prüfungen - Prüfgruppe M:  
Niedriger Luftdruck  
(IEC 60068-2-13:1983)

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60068-2-13:2001](https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001)

<https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001>

This European Standard was approved by CENELEC on 1999-04-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

Page 2  
EN 60068-2-13:1999

### Foreword

The text of the International Standard IEC 60068-2-13:1983, prepared by SC 50B (transformed into IEC TC 104 "Environmental conditions, classification and methods of test), was approved by CENELEC as HD 323.2.13 S1 on 1986-02-27.

This Harmonization Document was submitted to the formal vote for conversion into a European Standard and was approved by CENELEC as EN 60068-2-13 on 1999-04-01.

The following date was fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2000-04-01

Annexes designated "normative" are part of the body of the standard.  
In this standard, annex ZA is normative.  
Annex ZA has been added by CENELEC.

---

## iTeh STANDARD PREVIEW (standards.iteh.ai)

Endorsement notice

The text of the International Standard IEC 60068-2-13:1983 was approved by CENELEC as a European Standard without any modification.

[SIST EN 60068-2-13:2001](https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001)

<https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001>

**Annex ZA** (normative)**Normative references to international publications  
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| <u>Publication</u> | <u>Year</u> | <u>Title</u>   | <u>EN/HD</u>                 | <u>Year</u> |
|--------------------|-------------|--|------------------------------|-------------|
| IEC 60068-2-40     | 1976        | Basic environmental testing procedures<br>Part 2: Tests - Test Z/AM: Combined<br>cold/low air pressure tests | HD 323.2.40 S1 <sup>1)</sup> | 1988        |
| IEC 60068-2-41     | 1976        | Part 2: Tests - Test Z/BM: Combined dry<br>heat/low air pressure tests                                       | HD 323.2.41 S1 <sup>2)</sup> | 1988        |
| ISO 2533           | 1975        | Standard atmosphere  | -                            | -           |

1) HD 323.2.40 S1 includes A1:1983 to IEC 60068-2-40.

2) HD 323.2.41 S1 includes A1:1983 to IEC 60068-2-41.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60068-2-13:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001>

**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC**

**60068-2-13**

Quatrième édition  
Fourth edition  
1983

---

---

BASIC SAFETY PUBLICATION  
PUBLICATION FONDAMENTALE DE SÉCURITÉ

---

---

**Essais fondamentaux climatiques et  
de robustesse mécanique –**

**Partie 2-13:**

**Essais –**

**Essai M: Basse pression atmosphérique**

**(standards.iteh.ai)**

**Basic environmental testing procedures –**

[SIST EN 60068-2-13:2001](https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678c6ba6b/sist-en-60068-2-13-2001)

[https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-](https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678c6ba6b/sist-en-60068-2-13-2001)

**Part 2-13:**

**Tests –**

**Test M: Low air pressure**



Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

CODE PRIX  
PRICE CODE

**E**

*For price, see current catalogue  
Pour prix, voir catalogue en vigueur*

## CONTENTS

|   | Page |
|---|------|
| FOREWORD .....  | 5    |
| PREFACE .....   | 5    |
| Clause  |      |
| 1. Introduction .....   | 7    |
| 2. General description .....                                    | 7    |
| 3. Description of test apparatus .....                          | 7    |
| 4. Severities .....   | 9    |
| 5. Pre-conditioning .....                                       | 9    |
| 6. Initial measurements .....                                   | 11   |
| 7. Conditioning .....   | 11   |
| 8. Recovery .....   | 11   |
| 9. Final measurements .....                                     | 11   |
| 10. Information to be given in the relevant specification ..... | 13   |

**ITeH STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 60068-2-13:2001](https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001)

<https://standards.iteh.ai/catalog/standards/sist/5f6c23d2-5e42-4054-aa4f-171678ceba6b/sist-en-60068-2-13-2001>

---



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## BASIC ENVIRONMENTAL TESTING PROCEDURES –

## Part 2: Tests – Test M: Low air pressure

## FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

## PREFACE

This standard has been prepared by subcommittee 50B: Climatic tests, of IEC technical committee 50: Environmental testing.

It forms the fourth edition of IEC 68-2-13 and supersedes all previous editions.

A first draft was discussed at the meeting held in Paris in 1980. As a result of this meeting, a draft, Document 50B(Central Office)225, was submitted to the National Committees for approval under the Six Months' Rule in August 1981.

Amendments, Document 50B(Central Office)236, were submitted to the National Committees for approval under the Two Months' Procedure in May 1982.

It has the status of a basic safety publication in accordance with IEC Guide 104.

The National Committees of the following countries voted explicitly in favour of publication:

|                            |                            |
|----------------------------|----------------------------|
| Australia                  | Korea (Democratic People's |
| Belgium                    | Republic of)               |
| Canada                     | Korea (Republic of)        |
| China                      | Netherlands                |
| Czechoslovakia             | Norway                     |
| Egypt                      | Poland                     |
| Finland                    | South Africa (Republic of) |
| German Democratic Republic | Spain                      |
| Germany                    | Sweden                     |
| Hungary                    | Switzerland                |
| Italy                      | United Kingdom             |
| Japan                      | United States of America   |

*Other IEC publications quoted in this standard:*

Publications Nos. 68-2-40: Basic environmental testing procedures, Part 2: Tests – Test Z/AM: Combined cold/low air pressure tests.

68-241: Test Z/BM: Combined dry heat/low air pressure tests.

*Other publication quoted:*

ISO 2533: Standard atmosphere.