

**SLOVENSKI  
PREDSTANDARD**

**OSIST prEN 60068-2-30:2004**

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Environmental testing – Part 2-30: Tests – Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle)

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# 104/330/CDV

## COMMITTEE DRAFT FOR VOTE (CDV) PROJET DE COMITÉ POUR VOTE (CDV)

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Secretary: Alf Olsson, Sweden Secrétaire:	
Also of interest to the following committees Intéresse également les comités suivants	Supersedes document Remplace le document 104/235/CD and 104/283/CC
Functions concerned Fonctions concernées <input type="checkbox"/> Safety Sécurité <input type="checkbox"/> EMC CEM <input type="checkbox"/> Environment Environnement <input type="checkbox"/> Quality assurance Assurance qualité	

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## Document Preview

Titre :

CEI 60068-2-30 Ed.3 : Essais d'environnement – Partie 2-30: Essais – Essai Db et guide: Essai cyclique de chaleur humide (cycle de 12 + 12 heures)

Title :

IEC 60068-2-30 Ed.3: Environmental testing – Part 2-30: Tests – Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle)

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Note d'introduction

Ce projet inclut les commentaires effectués par le TC 104 WG1 dans sa liste de différence, lors de la préparation de la série CEI 60721-4.

Introductory note

This proposal includes the comments made by TC 104 WG1 in their list of differences when preparing IEC 60721-4 series.

<b>ATTENTION</b>	<b>ATTENTION</b>
<b>CDV soumis en parallèle au vote (CEI) et à l'enquête (CENELEC)</b>	<b>Parallel IEC CDV/CENELEC Enquiry</b>

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**BASIC ENVIRONMENTAL TESTING PROCEDURES –****Part 2: Tests – Test Db and guidance:  
Damp heat, cyclic (12 + 12-hour cycle)**

## FOREWORD

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- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
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## PREFACE

This standard has been prepared by subcommittee WG 16: Climatic tests, of IEC technical committee 104: Environmental testing.

It forms the third edition of IEC 60068-2-30 and replaces the second edition issued in 1980. It includes the revised text of the second edition, amendment 1 issued in 1985.

The text of this standard is based on the following documents:

Publications	Six Months' Rule	Reports on voting	Two Months' Procedure	Reports on voting
60068-2-30 (2 <sup>nd</sup> edition)	104/235/CD	104/283/CC		

Full information on the voting for the approval of this standard can be found in the reports on voting indicated in the above table.

The following IEC publications are quoted in this standard:

## Publications Nos.

- 60068-1: Basic environmental testing procedures – Part 1: General.
- 60068-2-28: Part 2: Tests – Guidance for damp heat tests.
- 60068-3-6: Environmental testing – Supporting documentation and guidance – Confirmation of the performance of temperature/humidity chambers.

## BASIC ENVIRONMENTAL TESTING PROCEDURES –

### Part 2: Tests – Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle)

#### INTRODUCTION

##### 1 Scope

To determine the suitability of components, equipment or other articles for use, transportation and storage under conditions of high humidity - combined with cyclic temperature changes and, in general, producing condensation on the surface of the specimen. If the test is being used to verify the performance of a specimen whilst it is being transported or stored in packaging then the packaging shall normally be fitted when the test conditions are being applied.

##### 2 General description

This test comprises one or more temperature cycles in which the relative humidity is maintained at a high level.

Two variants of the cycle are given which are identical except for the temperature fall period; during this part of the cycle, variant 2 allows wider tolerances of relative humidity and the rate of temperature fall.

The upper temperature of the cycle and the number of cycles (see clause 4) determine the test severity.

Test profiles illustrating the procedure are shown in Figures 1, 2a, 2b and 3.

##### 3 Testing chamber

The chamber shall be so constructed that the conditions given hereafter may be obtained:

3.1 The temperature can be varied cyclically between  $25 \pm 3$  °C and the appropriate upper temperature specified with the tolerance and rate of change specified in 6.3 and Figures 2a or 2b, as applicable.

3.2 The relative humidity in the working space can be maintained within the limits given in 6.3 and in Figures 2a or 2b, as applicable.

3.3 Care shall be taken to ensure that the conditions prevailing at any point in the working space are uniform and are as similar as possible to those prevailing in the immediate vicinity of suitably located temperature and humidity sensing devices. The chamber shall meet the performance criteria as detailed in IEC 60068-3-6.

3.4 The specimens under test shall not be subjected to radiant heat from the chamber conditioning processes.