
Environmental testing - Part 2: Tests - Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands

Environmental testing -- Part 2: Tests - Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands

Umweltprüfungen -- Teil 2: Prüfungen - Prüfung Xb: Prüfung der Beständigkeit von Kennzeichnungen und Aufschriften gegen Abrieb, verursacht durch Wischen mit Fingern und Händen

Essais d'environnement -- Partie 2: Essais - Essai Xb: Effacement des marquages et inscriptions par friction des doigts et des mains

SIST EN 60068-2-70:2001
<https://standards.iteh.ai/catalog/standards/sist/ccd08b4f-7fdf-4654-90d5-92622573cdc9/sist-en-60068-2-70-2001>

Ta slovenski standard je istoveten z: EN 60068-2-70:1996

ICS:

19.040

Preskušanje v zvezi z
okoljem

Environmental testing

SIST EN 60068-2-70:2001

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60068-2-70:2001

<https://standards.iteh.ai/catalog/standards/sist/ccd08b4f-7fdf-4654-90d5-92622573cdc9/sist-en-60068-2-70-2001>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60068-2-70

January 1996

ICS 19.040

Descriptors: Environmental testing, abrasion of markings, abrasion of letterings, rubbing of fingers and hands, test apparatus, test fabric, test liquid

English version

Environmental testing - Part 2: Tests
Test Xb: Abrasion of markings and letterings caused
by rubbing of fingers and hands
(IEC 68-2-70:1995)

Essais d'environnement

Partie 2: Essais

Essai Xb: Effacement des marquages et inscriptions par friction des doigts et des mains

(CEI 68-2-70:1995)

Umweltprüfungen

Teil 2: Prüfungen

Prüfung Xb: Prüfung der Beständigkeit von Kennzeichnungen und Aufschriften gegen Abrieb, verursacht durch Wischen mit Fingern und Händen

(IEC 68-2-70:1995)

[SIST EN 60068-2-70:2001](https://standards.iteh.ai/catalog/standards/sist/ccd08b4f-7fd4-4654-90d5-92622573cdc9/sist-en-60068-2-70-2001)

<https://standards.iteh.ai/catalog/standards/sist/ccd08b4f-7fd4-4654-90d5-92622573cdc9/sist-en-60068-2-70-2001>

This European Standard was approved by CENELEC on 1995-11-28. 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, 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

Foreword

The text of document 50/359/DIS, future edition 1 of IEC 68-2-70, prepared by TC 50, Environmental testing, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60068-2-70 on 1995-11-28.

The following dates were 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) 1996-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1996-09-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annex A is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 68-2-70:1995 was approved by CENELEC as a European Standard without any modification.

SIST EN 60068-2-70:2001

<https://standards.iteh.ai/catalog/standards/sist/ccd08b4f-7fd1-4654-90d5-92622573cdc9/sist-en-60068-2-70-2001>

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 68-1	1988	Environmental testing Part 1: General and guidance		
+ A1	1992		EN 60068-1 ¹⁾	1994

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 60068-2-70:2001](https://standards.iteh.ai/catalog/standards/sist/ccd08b4f-7fd1-4654-90d5-92622573cdc9/sist-en-60068-2-70-2001)

<https://standards.iteh.ai/catalog/standards/sist/ccd08b4f-7fd1-4654-90d5-92622573cdc9/sist-en-60068-2-70-2001>

1) EN 60068-1 includes corrigendum October 1988 to IEC 68-1.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60068-2-70:2001

<https://standards.iteh.ai/catalog/standards/sist/ccd08b4f-7fdf-4654-90d5-92622573cdc9/sist-en-60068-2-70-2001>

NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

60068-2-70

Première édition
First edition
1995-12

BASIC SAFETY PUBLICATION
PUBLICATION FONDAMENTALE DE SÉCURITÉ

Essais d'environnement –

Partie 2-70:

Essais – Essai Xb: Effacement des marquages et inscriptions par friction des doigts et des mains

iTeh STANDARD PREVIEW

Environmental testing –

Part 2-70:

Tests – Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

K

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

CONTENTS

	Page
FOREWORD	5
INTRODUCTION	5
Clause	
1 Scope	9
2 Normative reference	9
3 General description	9
4 Description of the test apparatus	9
4.1 Test apparatus	9
4.2 Test fabric	11
4.3 Test liquids	13
5 Severity	13
6 Preconditioning	13
7 Initial measurements	15
8 Testing	15
9 Intermediate measurements	15
10 Recovery	15
11 Final measurements	15
12 Information to be given in the relevant specification	15
Annex A – Schematic drawing of a test apparatus for test Xb	17

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ENVIRONMENTAL TESTING –

**Part 2: Tests – Test Xb: Abrasion of markings and letterings
caused by rubbing of fingers and hands**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 68-2-70 has been prepared by IEC technical committee 50: Environmental testing.

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

DIS	Report on voting
50/359/DIS	50/372/RVD

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

Annex A is for information only.

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