

SLOVENSKI STANDARD
SIST EN 60695-7-1:2001**01-september-2001**

Fire hazard testing - Part 7: Guidance on the minimization of toxic hazards due to fires involving electrotechnical products - Section 1: General

Fire hazard testing -- Part 7: Guidance on the minimization of toxic hazards due to fires involving electrotechnical products -- Section 1: General

Prüfungen zur Beurteilung der Brandgefahr -- Teil 7: Anleitung zur Verringerung der toxischen Gefahr bei Bränden von elektrotechnischen Erzeugnissen -- Hauptabschnitt 1: Allgemeines

(standards.iteh.ai)

Essais relatifs aux risques du feu -- Partie 7: Guide sur la minimalisation des risques toxiques dus à des feux impliquant des produits électrotechniques -- Section 1: Généralités

Ta slovenski standard je istoveten z: EN 60695-7-1:1995**ICS:**

13.220.40	Sposobnost vžiga in obnašanje materialov in proizvodov pri gorenju	Ignitability and burning behaviour of materials and products
29.020	Elektrotehnika na splošno	Electrical engineering in general

SIST EN 60695-7-1:2001**en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60695-7-1:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/67dd4ca7-4de1-41b8-adb3-f25d8a51fcc4/sist-en-60695-7-1-2001>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60695-7-1

June 1995

ICS 13.220.40; 29.020

Descriptors: Fire hazard testing, minimization of toxic hazards, guidance, electrotechnical products

English version

Fire hazard testing
Part 7: Guidance on the minimization of toxic hazards due
to fires involving electrotechnical products
Section 1: General
(IEC 695-7-1:1993)

Essais relatifs aux risques du feu
Partie 7: Guide sur la minimalisation des
risques toxiques dus à des feux
impliquant des produits
électrotechniques
Section 1: Généralités
(CEI 695-7-1:1993)

Prüfungen zur Beurteilung der
Brandgefahr
Teil 7: Anleitung zur Verringerung der
toxischen Gefahr bei Bränden von
elektrotechnischen Erzeugnissen
Hauptabschnitt 1: Allgemeines
(IEC 695-7-1:1993)

<https://standards.iteh.ai/catalog/standards/sist/67dd4ca7-4de1-41b8-adb3-f25d8a51fcc4/sist-en-60695-7-1-2001>

This European Standard was approved by CENELEC on 1995-05-15. 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 the International Standard IEC 695-7-1:1993, prepared by IEC TC 89, Fire hazard testing, was submitted to the formal vote and was approved by CENELEC as EN 60695-7-1 on 1995-05-15 without any modification.

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) 1996-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1996-07-01

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 695-7-1:1993 was approved by CENELEC as a European Standard without any modification.

[SIST EN 60695-7-1:2001](https://standards.iteh.ai/catalog/standards/sist/67dd4ca7-4de1-41b8-adb3-f25d8a51fcc4/sist-en-60695-7-1-2001)

<https://standards.iteh.ai/catalog/standards/sist/67dd4ca7-4de1-41b8-adb3-f25d8a51fcc4/sist-en-60695-7-1-2001>

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 695-4	1993	Fire hazard testing Part 4: Terminology concerning fire tests	EN 60695-4	1995

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60695-7-1:2001](https://standards.iteh.ai/catalog/standards/sist/67dd4ca7-4de1-41b8-adb3-f25d8a51fcc4/sist-en-60695-7-1-2001)

<https://standards.iteh.ai/catalog/standards/sist/67dd4ca7-4de1-41b8-adb3-f25d8a51fcc4/sist-en-60695-7-1-2001>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60695-7-1:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/67dd4ca7-4de1-41b8-adb3-f25d8a51fcc4/sist-en-60695-7-1-2001>

NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
695-7-1

Première édition
First edition
1993-11

PUBLICATION FONDAMENTALE DE SÉCURITÉ
BASIC SAFETY PUBLICATION

Essais relatifs aux risques du feu –

Partie 7:

Guide sur la minimalisation des risques toxiques
dus à des feux impliquant des produits
électrotechniques –

(Section 1: Généralités)

SIST EN 60695-7-1:2001

<https://standards.iteh.ai/catalog/standards/sist-en-60695-7-1-2001>
Fire hazard testing –

Part 7:

Guidance on the minimization of toxic hazards
due to fires involving electrotechnical products –
Section 1: General

© CEI 1993 Droits de reproduction réservés — Copyright — all rights reserved

Aucune partie de cette publication ne peut être reproduite ni
utilisée sous quelque forme que ce soit et par aucun pro-
cédé, électronique ou mécanique, y compris la photocopie et
les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in
any form or by any means, electronic or mechanical,
including photocopying and microfilm, without permission
in writing from the publisher.

Bureau Central de la Commission Electrotechnique Internationale 3, rue de Varembe Genève, Suisse



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

K

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

CONTENTS

	Page
FOREWORD.....	5
INTRODUCTION.....	7
Clause	
1 Scope	9
2 Normative reference	9
3 Definitions	9
4 Principles of assessing toxic hazard in fires	11
4.1 General	11
4.2 Factors determining toxic hazard	13
4.2.1 Burning rate	13
4.2.2 Toxicity of fire effluent	13
4.2.2.1 Narcosis	15
4.2.2.2 Irritants	15
5 Unusual specific toxicity and extreme toxic potency	15
6 Toxic hazard and hazard assessment	15
Annex A – Bibliography	19

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIRE HAZARD TESTING –

**Part 7: Guidance on the minimization of toxic hazards
due to fires involving electrotechnical products –
Section 1: General**

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, 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.
- 3) They have the form of recommendations for international use 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.

<https://standards.iteh.ai/catalog/standards/sist/67dd4ca7-4de1-41b8-adb3->

International Standard IEC 695-7-1 has been prepared by IEC technical committee 89: Fire hazard testing.

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

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

DIS	Report on voting
89(CO)24	89(CO)32

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

IEC 695-7 consists of the following sections, under the general title: *Fire hazard testing*:

- Section 1: General guidance (IEC 695-7-1);
- Section 2: Guidance on the selection and use of test methods (IEC 695-7-2);
- Section 3: Guidance on the use and interpretation of test results (IEC 695-7-3).

Annex A is for information only.