



NSAI
Standards

Irish Standard
I.S. EN 60695-6-2:2011

Fire hazard testing -- Part 6-2: Smoke obscuration - Summary and relevance of test methods (IEC 60695-6-2:2011 (EQV))

I.S. EN 60695-6-2:2011

Incorporating amendments/corrigenda issued since publication:

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EUROPEAN STANDARD

EN 60695-6-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2011

ICS 13.220.99; 29.020

English version

**Fire hazard testing -
Part 6-2: Smoke obscuration -
Summary and relevance of test methods
(IEC 60695-6-2:2011)**

Essais relatifs aux risques du feu -
Partie 6-2: Opacité des fumées -
Résumé et pertinence des méthodes
d'essais
(CEI 60695-6-2:2011)

Prüfungen zur Beurteilung der
Brandgefahr -
Teil 6-2: Sichtminderung durch Rauch -
Zusammenfassung und Anwendbarkeit
von Prüfverfahren
(IEC 60695-6-2:2011)

This European Standard was approved by CENELEC on 2011-09-29. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

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

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Foreword

The text of document 89/1057/FDIS, future edition 1 of IEC 60695-6-2, prepared by IEC/TC 89 "Fire hazard testing" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60695-6-2:2011.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-06-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2014-09-29

This standard is to be used in conjunction with EN 60695-6-1.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60695-6-2:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60332-3-10	NOTE	Harmonized as EN 60332-3-10.
IEC 61034-1	NOTE	Harmonized as EN 61034-1.
IEC 61034-2	NOTE	Harmonized as EN 61034-2.
ISO 5659-2	NOTE	Harmonized as EN ISO 5659-2.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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 60695-6-1	2005	Fire hazard testing - Part 6-1: Smoke obscuration - General guidance	EN 60695-6-1	2005
IEC Guide 104	-	The preparation of safety publications and the use of basic safety publications and group safety publications	-	-
ISO 5725-2	1994	Accuracy (trueness and precision) of measurement methods and results - Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method	-	-
ISO 13943	2008	Fire safety - Vocabulary	EN ISO 13943	2010
ISO 19706	2007	Guidelines for assessing the fire threat to people	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIRE HAZARD TESTING –

Part 6-2: Smoke obscuration – Summary and relevance of test methods

FOREWORD

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International Standard IEC 60695-6-2 has been prepared by IEC technical committee 89: Fire hazard testing.

This standard cancels and replaces IEC/TS 60695-6-2 published in 2005. This first edition constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

- this publication has been re-designated as an International Standard;
- updated normative references;
- updated terms and definitions;
- new test method Clause 7.3.2;
- numerous editorial changes of a technical nature throughout the publication.

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This standard is to be used in conjunction with IEC 60695-6-1.

It has the status of a basic safety publication in accordance with IEC Guide 104 and ISO/IEC Guide 51.

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

Enquiry draft	Report on voting
89/1057/FDIS	89/1071/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60695 series, under the general title of *Fire hazard testing*, can be found on the IEC website.

Part 6 consists of the following parts:

Part 6-1: Smoke obscuration – General guidance

Part 6-2: Smoke obscuration – Summary and relevance of test methods

Part 6-30: Guidance and test methods on the assessment of obscuration hazard of vision caused by smoke opacity from electrotechnical products involved in fires – Small scale static method – Determination of smoke opacity – Description of the apparatus

Part 6-31: Smoke obscuration – Small-scale static test – Materials

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

The risk of fire needs to be considered in any electrical circuit, and the objective of component, circuit and equipment design, and the choice of materials, is to reduce the likelihood of fire, even in the event of foreseeable abnormal use, malfunction or failure.

Electrotechnical products, primarily as victims of fire, may nevertheless contribute to the fire. One of the contributing hazards is the release of smoke, which may cause loss of vision and/or disorientation which could impede escape from the building, or fire fighting.

This international standard describes smoke test methods in common use to assess the smoke release from electrotechnical products, or from materials used in electrotechnical products. It forms part of the IEC 60695-6 series which gives guidance to product committees wishing to incorporate test methods for smoke obscuration in product standards.

This is a free preview. Purchase the entire publication at the link below:

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