



NSAI
Standards

Irish Standard
I.S. EN 60695-2-13:2010&A1:2014

Fire hazard testing -- Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials

I.S. EN 60695-2-13:2010&A1:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 60695-2-13:2010/A1:2014

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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EUROPEAN STANDARD

EN 60695-2-13:2010/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2014

ICS 13.220.40; 29.020

English Version

**Fire hazard testing - Part 2-13: Glowing/hot-wire based test
methods - Glow-wire ignition temperature (GWIT) test method
for materials
(IEC 60695-2-13:2010/A1:2014)**

Essais relatifs aux risques du feu - Partie 2-13: Essais au fil
incandescent/chauffant - Méthode d'essai de température
d'allumabilité au fil incandescent (GWIT) pour matériaux
(CEI 60695-2-13:2010/A1:2014)

Prüfungen zur Beurteilung der Brandgefahr - Teil 2-13:
Prüfverfahren mit dem Glühdraht - Prüfung mit dem
Glühdraht zur Entzündbarkeit (GWIT) von Werkstoffen
(IEC 60695-2-13:2010/A1:2014)

This amendment A1 modifies the European Standard EN 60695-2-13:2010; it was approved by CENELEC on 2014-03-19. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 89/1199/FDIS, future IEC 60695-2-13:2010/A1, prepared by IEC TC 89, Fire hazard testing, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60695-2-13:2010/A1:2014.

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

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) 2014-12-19
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2017-03-19

Endorsement notice

The text of the International Standard IEC 60695-2-13:2010/A1:2014 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 60695-2-11 | NOTE Harmonized as EN 60695-2-11. |
| ISO/IEC 13943:2008 | NOTE Harmonized as EN ISO 13943:2010. |

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60695-2-13

December 2010

ICS 13.220.40; 29.020

Supersedes EN 60695-2-13:2001

English version

**Fire hazard testing -
Part 2-13: Glowing/hot-wire based test methods -
Glow-wire ignition temperature (GWIT) test method for materials
(IEC 60695-2-13:2010)**

Essais relatifs aux risques du feu -
Partie 2-13: Essais au fil
incandescent/chauffant -
Méthode d'essai de température
d'allumabilité au fil incandescent (GWIT)
pour matériaux
(CEI 60695-2-13:2010)

Prüfungen zur Beurteilung der
Brandgefahr -
Teil 2-13: Prüfungen mit dem Glühdraht -
Prüfungen mit dem Glühdraht zur
Entzündbarkeit (GWIT) von Werkstoffen
(IEC 60695-2-13:2010)

This European Standard was approved by CENELEC on 2010-12-01. 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.

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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, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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

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Foreword

The text of document 89/1018/FDIS, future edition 2 of IEC 60695-2-13, prepared by IEC/TC 89, Fire hazard testing, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60695-2-13 on 2010-12-01.

This European Standard supersedes EN 60695-2-13:2001.

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

This standard is to be used in conjunction with EN 60695-2-10.

This EN 60695-2-13:2010 includes the following significant technical changes with respect to EN 60695-2-13:2001:

- modified title;
- addition of an Introduction;
- clarification of Scope;
- expansion of Clause 2: Normative references;
- expansion of Clause 3;
- revision of Clause 4 to alignment with the EN 60695-11 series to introduce guidance on test programs for material variations;
- clarification of Clause 8: Conditioning (now Clause 7);
- deletion of Clause 9: Initial measurement;
- expansion of Clause 10: Test procedures (now Clause 8);
- expansion of Clause 11: Observation and measurement (now Clause 9);
- clarification of Clause 12: Evaluation of test results (now Clause 10);
- expansion of Clause 13: Test report (now Clause 11).

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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) | 2011-09-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2013-12-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60695-2-13:2010 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 60695-1-10	NOTE Harmonized as EN 60695-1-10.
IEC 60695-1-11	NOTE Harmonized as EN 60695-1-11.
IEC 60695-11 series	NOTE Harmonized in EN 60695-11 series (not modified).

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 60695-1-30	2008	Fire hazard testing - Part 1-30: Guidance for assessing the fire hazard of electrotechnical products - Preselection testing process - General guidelines	EN 60695-1-30	2008
IEC 60695-2-10	2000	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	EN 60695-2-10	2001
IEC 60695-2-11	2000	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	EN 60695-2-11	2001
IEC 60695-2-12	-	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	EN 60695-2-12S	-
ISO/IEC Guide 51	1999	Safety aspects - Guidelines for their inclusion - in standards		-
IEC Guide 104	1997	The preparation of safety publications and the - use of basic safety publications and group safety publications		-
ISO 291	2008	Plastics - Standard atmospheres for conditioning and testing	EN ISO 291	2008
ISO 293	2004	Plastics - Compression moulding of test specimens of thermoplastic materials	EN ISO 293	2005
ISO 294	Series	Plastics - Injection moulding of test specimens of thermoplastic materials	EN ISO 294	Series
ISO 295	2004	Plastics - Compression moulding of test specimens of thermosetting materials	EN ISO 295	2004
ISO 13943	2008	Fire safety - Vocabulary	EN ISO 13943	2010



IEC 60695-2-13

Edition 2.0 2010-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

BASIC SAFETY PUBLICATION

PUBLICATION FONDAMENTALE DE SÉCURITÉ

Fire hazard testing –

**Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition
temperature (GWIT) test method for materials**

Essais relatifs aux risques du feu –

**Partie 2-13: Essais au fil incandescent/chauffant – Méthode d’essai de
température d’allumabilité au fil incandescent (GWIT) pour matériaux**



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IEC 60695-2-13

Edition 2.0 2010-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

BASIC SAFETY PUBLICATION

PUBLICATION FONDAMENTALE DE SÉCURITÉ

Fire hazard testing –

**Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition
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température d’allumabilité au fil incandescent (GWIT) pour matériaux**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIRE HAZARD TESTING –

Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60695-2-13 has been prepared by technical committee 89: Fire hazard testing.

This second edition of IEC 60695-2-13 cancels and replaces the first edition published in 2000. It also constitutes a technical revision.

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

This standard is to be used in conjunction with IEC 60695-2-10.

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

- modified title;
- addition of an Introduction;
- clarification of Scope;

- expansion of Clause 2: Normative references;
- expansion of Clause 3;
- revision of Clause 4 to alignment with the IEC 60695-11 series to introduce guidance on test programs for material variations;
- clarification of Clause 8: Conditioning (now Clause 7);
- deletion of Clause 9: Initial measurement;
- expansion of Clause 10: Test procedures (now Clause 8);
- expansion of Clause 11: Observation and measurement (now Clause 9);
- clarification of Clause 12: Evaluation of test results (now Clause 10);
- expansion of Clause 13: Test report (now Clause 11).

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

FDIS	Report on voting
89/1018/FDIS	89/1035/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 the parts in the IEC 60695 series, under the general title *Fire hazard testing* can be found on the IEC web site.

Part 2 consists of the following parts:

- Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure
- Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products
- Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials
- Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for 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.

The contents of the corrigendum of February 2012 have been included in this copy.

INTRODUCTION

In electrotechnical equipment, overheated metal parts can act as ignition sources. In glow-wire tests an electrically heated wire is used to simulate such an ignition source.

IEC 60695-2-10 describes a glow-wire test apparatus and common test procedure, IEC 60695-2-11 describes a glow-wire flammability test for end products, and IEC 60695-2-12 describes a glow-wire flammability index test method for materials.

In the design of any electrotechnical product, the risk of fire and the potential hazards associated with fire need to be considered. In this respect the objective of component, circuit, and product design, as well as the choice of materials, is to reduce to acceptable levels the potential risks of fire during normal operating conditions, reasonable foreseeable abnormal use, malfunction and/or failure. IEC/TC 89 has developed IEC 60695-1-10, together with its companion, IEC 60695-1-11, to provide guidance on how this is to be accomplished.

The primary aims of IEC 60695-1-10 and IEC 60695-1-11 are to provide guidance on how:

- a) to prevent ignition caused by an electrically energized component part, and
- b) to confine any resulting fire within the bounds of the enclosure of the electrotechnical product in the event of ignition.

Secondary aims of IEC 60695-1-10 and IEC 60695-1-11 include the minimization of any flame spread beyond the product's enclosure and the minimization of the harmful effects of fire effluents such as heat, smoke, toxicity and/or corrosivity.

Fires involving electrotechnical products can also be initiated from external non-electrical sources. Considerations of this nature should be dealt with in the overall fire risk assessment.

This part of IEC 60695 describes a glow-wire ignition temperature test method for materials. It should be used to measure, describe, and rank the properties of materials in response to heat caused by contact with an electrically heated wire under controlled laboratory conditions. This may be useful for the evaluation of materials for use in products that may be exposed to excess thermal stress such as a fault current flowing through a wire, overloading of components, and/or bad connections. It should not be used to solely describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors pertinent to a fire hazard assessment of a particular end use.

This International Standard may involve hazardous materials, operations, and equipment. It does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

FIRE HAZARD TESTING –

Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials

1 Scope

This part of IEC 60695 specifies the details of the glow-wire test to be applied to test specimens of solid electrical insulating materials or other solid materials for ignitability testing to determine the glow-wire ignition temperature (GWIT).

The GWIT is the temperature which is 25 K (or 30 K) higher than the maximum test temperature, determined during this standardized procedure, at which the tested material

- a) does not ignite, or
- b) if sustained and continuous flaming combustion does not occur for a time longer than 5 s for any single flame event and the specimen is not totally consumed.

This test is a materials test carried out on a series of standard test specimens. The data obtained, along with data from the glow-wire flammability index (GWFI) test method for materials, IEC 60695-2-12, can then be used in a preselection process in accordance with IEC 60695-1-30 to judge the ability of materials to meet the requirements of IEC 60695-2-11.

NOTE As an outcome of conducting a fire hazard assessment, an appropriate series of preselection flammability and ignition tests may allow a reduction of end product testing.

This basic safety publication is intended for use by technical committees in the preparation of standards in accordance with the principles laid down in IEC Guide 104 and ISO/IEC Guide 51.

One of the responsibilities of a technical committee is, wherever applicable, to make use of basic safety publications in the preparation of its publications. The requirements, test methods or test conditions of this basic safety publication will not apply unless specifically referred to or included in the relevant publications.

2 Normative references

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.

IEC 60695-1-30:2008, *Fire hazard testing – Part 1.30: Guidance for assessing the fire hazard of electrotechnical products – Preselection testing process – General guidelines*

IEC 60695-2-10:2000, *Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure*

IEC 60695-2-11:2000, *Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products*

IEC 60695-2-12, *Fire hazard testing – Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials*

IEC Guide 104:1997, *The preparation of safety publications and the use of basic safety publications and group safety publications*

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