

BS EN 60695-2-12:2010+A1:2014



BSI Standards Publication

Fire hazard testing —

Part 2-12: Glowing/hot-wire based
test methods — Glow-wire flammability
index (GWFI) test method for materials

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National foreword

This British Standard is the UK implementation of EN 60695-2-12:2010+A1:2014. It is identical to IEC 60695-2-12:2010, incorporating amendment 1:2014. It supersedes BS EN 60695-2-12:2010, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee GEL/89, Fire hazard testing.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 May 2011.

Amendments/corrigenda issued since publication

Date	Text affected
31 August 2014	Implementation of IEC amendment 1:2014 with CENELEC endorsement A1:2014. Annex ZA updated

**Fire hazard testing -
Part 2-12: Glowing/hot-wire based test methods -
Glow-wire flammability index (GWFI) test method for materials
(IEC 60695-2-12:2010)**

Essais relatifs aux risques du feu -
Partie 2-12: Essais au fil
incandescent/chauffant -
Méthode d'essai d'indice d'inflammabilité
au fil incandescent (GWFI) pour matériaux
(CEI 60695-2-12:2010)

Prüfungen zur Beurteilung der
Brandgefahr -
Teil 2-12: Prüfverfahren mit dem
Glühdraht -
Prüfung mit dem Glühdraht zur
Entflammbarkeit (GWFI) von Werkstoffen
(IEC 60695-2-12:2010)

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.

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, 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.

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 89/1017/FDIS, future edition 2 of IEC 60695-2-12, prepared by IEC TC 89, Fire hazard testing, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60695-2-12 on 2010-12-01.

This European Standard supersedes EN 60695-2-12:2001.

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 and EN 60695-2-13.

This EN 60695-2-12:2010 includes the following significant technical changes with respect to EN 60695-2-12:2001:

- modified title;
- addition of an Introduction;
- clarification of Scope;
- expansion of Clause 2: Normative references;
- definitions added to 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 measurements”;
- 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).

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:

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|--|-------|------------|
| – 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 60695-2-12:2010 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).

Foreword to amendment A1

The text of document 89/1198/FDIS, future IEC 60695-2-12:2010/A1, prepared by IEC TC 89, Fire hazard testing, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60695-2-12:2010/A1:2014.

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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) DAV + 6 months
- 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 60695-2-12:2010/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.

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 60695-2-13	-	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	EN 60695-2-13	-
ISO/IEC Guide 51	-	Safety aspects - Guidelines for their inclusion - in standards		-
IEC Guide 104	-	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	-	Plastics - Compression moulding of test specimens of thermoplastic materials	EN ISO 293	-
ISO 294	Series	Plastics - Injection moulding of test specimens of thermoplastic materials - Part 1: General principles, and moulding of multipurpose and bar test specimens	EN ISO 294	Series
ISO 295	-	Plastics - Compression moulding of test specimens of thermosetting materials	EN ISO 295	-