

Fire hazard testing —

Part 1-30: Guidance for assessing the fire hazard of electrotechnical products — Use of preselection testing procedures

The European Standard EN 60695-1-30:2002 has the status of a
British Standard

ICS 13.220.40; 29.020

National foreword

This British Standard is the official English language version of EN 60695-1-30:2002. It is identical with IEC 60695-1-30:2002.

The UK participation in its preparation was entrusted to Technical Committee GEL/89, Fire hazard testing, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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Fire hazard testing
Part 1-30: Guidance for assessing the fire hazard
of electrotechnical products -
Use of preselection testing procedures
(IEC 60695-1-30:2002)

Essais relatifs aux risques du feu
Partie 1-30: Guide pour l'évaluation
des risques du feu
des produits électrotechniques -
Utilisation des procédures
d'essais de présélection
(CEI 60695-1-30:2002)

Prüfungen zur Beurteilung der
Brandgefahr
Teil 1-30: Anleitung zur Beurteilung der
Brandgefahr von elektrotechnischen
Erzeugnissen -
Anwendung von Vorauswahlverfahren
(IEC 60695-1-30:2002)

This European Standard was approved by CENELEC on 2002-09-01. 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.

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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 89/526/FDIS, future edition 1 of IEC 60695-1-30, prepared by IEC TC 89, Fire hazard testing, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60695-1-30 on 2002-09-01.

This publication shall be used in conjunction with EN 60695-1-1:2000.

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) 2003-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-09-01

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 annexes A and B are informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60695-1-30:2002 was approved by CENELEC as a European Standard without any modification.

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

A.1	IEC 60112	NOTE	Harmonized as HD 214 S2:1980 (not modified).
	IEC 60587	NOTE	Harmonized as HD 380 S2:1987 (not modified).
	IEC 60695-2-2	NOTE	Harmonized as HD 444.2.2 S2:1992 (not modified).
	IEC 60695-2-13	NOTE	Harmonized as EN 60695-2-13:2001 (not modified).
	ISO 1182	NOTE	Harmonized as EN ISO 1182:2002 (not modified).
	ISO 2719	NOTE	Harmonized as EN 22719:1993 (not modified).
	ISO 2592	NOTE	Harmonized as EN ISO 2592:2001 (not modified).
A.2	IEC 60249-1	NOTE	Harmonized as EN 60249-1:1993 (not modified).
	IEC 60332-3 (Series)	NOTE	See EN 50266 (Series).
	IEC 60695-2-12	NOTE	Harmonized as EN 60695-2-12:2001 (not modified).
	IEC 60695-11-10	NOTE	Harmonized as EN 60695-11-10:1999 (not modified).

	IEC 60695-11-20	NOTE	Harmonized as EN 60695-11-20:1999 (not modified).
	IEC 60707	NOTE	Harmonized as EN 60707:1999 (not modified).
	IEC 61144	NOTE	Harmonized as EN 61144:1993 (not modified).
	ISO 4589-2	NOTE	Harmonized as EN ISO 4589-2:1999 (not modified).
	ISO 4589-3	NOTE	Harmonized as EN ISO 4589-2:1996 (not modified).
	ISO 9773	NOTE	Harmonized as EN ISO 9773:1998 (not modified).
A.4	IEC 61034-2	NOTE	See EN 50268-2:1999.
	ISO 5659-2	NOTE	Harmonized as EN ISO 5659-2:1998 (not modified).
A.9	IEC 60216 (Series)	NOTE	Harmonized as HD 611/EN 60216 (Series) (not modified).
	ISO 75-1	NOTE	Harmonized as EN ISO 75-1:1996 (not modified).
	ISO 75-2	NOTE	Harmonized as EN ISO 75-2:1996 (not modified).
	ISO 75-3	NOTE	Harmonized as EN ISO 75-3:1996 (not modified).
	ISO 179-1	NOTE	Harmonized as EN ISO 179-1:2000 (not modified).
	ISO 179-2	NOTE	Harmonized as EN ISO 179-2:1999 (not modified).
	ISO 180	NOTE	Harmonized as EN ISO 180:2000 (not modified).
	ISO 306	NOTE	Harmonized as EN ISO 306:1996 (not modified).
A.10	IEC 60754-1	NOTE	See EN 50267-1:1998 and EN 50267-2-1:1998
	IEC 60754-2	NOTE	See EN 50267-1:1998 and EN 50267-2-3:1998

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INTRODUCTION

The information gained from properly designed small-scale tests can be used as an aid for the preselection of proper materials, parts, components or sub-assemblies with regard to the fire hazard evaluation of the final end-product. The best method for testing electrotechnical products with regard to fire hazard is to duplicate exactly the conditions occurring in practice. Where this is not practicable, fire hazard testing should be conducted by simulating as closely as possible the actual conditions of use and of the situation to which a sub-assembly, component, part or material may be exposed in such use.

FIRE HAZARD TESTING –

Part 1-30: Guidance for assessing the fire hazard of electrotechnical products – Use of preselection testing procedures

1 Scope

This part of IEC 60695 is intended to provide:

- a) generic guidance; and
- b) guidance for assessing the significance, relevance and limitations of the data from preselection fire tests compared to the data from fire tests that provide input for hazard assessment.

Priority is given to fire hazard assessment tests made on the final end-product; however, in certain cases preselection tests may be agreed upon for practical reasons.

One of the responsibilities of a technical committee is, wherever applicable, to make use of basic safety publications in the preparation of its publications.

Examples of test methods which contain combustion characteristics tests specified in the international test methods of IEC and ISO are listed in annex A.

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 60695-1-1:1999, *Fire hazard testing – Part 1-1: Guidance for assessing the fire hazard of electrotechnical products – General guidelines*

IEC 60695-4:2001, *Fire hazard testing – Part 4: Terminology concerning fire tests*

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

ISO/IEC 13943:2000, *Fire safety – Vocabulary*

3 Definitions

For the purposes of this part of IEC 60695, the definitions given in ISO/IEC 13943 and IEC 60695-4, as well as the following apply.

3.1

end-product test

test specified in the relevant product specification on an assembled product ready for use

NOTE End-product tests can be small scale, intermediate scale or real scale.