

Fire hazard testing —

Part 2-10: Glowing/hot-wire based test methods — Glow-wire apparatus and common test procedure

The European Standard EN 60695-2-10:2001 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 60695-2-10:2001. It is identical with IEC 60695-2-10:2000. It supersedes BS EN 60695-2-1/0:1997 which is withdrawn.

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.

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This British Standard, having been prepared under the direction of the Electrotechnical Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 June 2001

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 15 and a back cover.

The BSI copyright date displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

© BSI 06-2001

ISBN 0 580 37636 2

EUROPEAN STANDARD

EN 60695-2-10

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2001

ICS 13.220.40,29.020

Supersedes EN 60695-2-1/0:1996

English version

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

Essais relatifs aux risques du feu
Partie 2-10: Essais au fil
incandescent/chauffant -
Appareillage et méthode
commune d'essai
(CEI 60695-2-10:2000)

Prüfungen zur Beurteilung der
Brandgefahr
Teil 2-10: Prüfungen mit dem Glühdraht -
Glühdrahtprüfeinrichtungen und
allgemeines Prüfverfahren
(IEC 60695-2-10:2000)

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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

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Ref. No. EN 60695-2-10:2001 E

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Foreword

The text of document 89/412/FDIS, future edition 1 of IEC 60695-2-10, prepared by IEC TC 89, Fire hazard testing, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60695-2-10 on 2000-11-01.

This European Standard supersedes EN 60695-2-1/0:1996.

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) 2001-08-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-11-01

EN 60695-2-11, EN 60695-2-12 and EN 60695-2-13 are to be used in conjunction with this standard.

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 60695-2-10:2000 was approved by CENELEC as a European Standard without any modification.

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INTRODUCTION

The best method for testing electrotechnical products with regard to fire hazard is to duplicate exactly the conditions occurring in practice. In most instances, this is not possible. Accordingly, for practical reasons, the testing of electrotechnical products with regard to fire hazard is best conducted by simulating as closely as possible the actual effects occurring in practice.

Parts of electrotechnical equipment which might be exposed to excessive thermal stress due to electric effects and the deterioration of which might impair the safety of the equipment must not be unduly affected by heat and by fire generated within the equipment.

Parts of insulating material or of other solid combustible material which are liable to propagate flames inside the equipment may be ignited by glowing wires or glowing elements. Under certain conditions (for example, a fault current flowing through a wire, overloading of components, and bad connections), certain elements may attain a temperature such that they will ignite parts in their vicinity.