AS/NZS 60695.11.2:2004
(IEC 60695-11-2:2003, IDT)

Australian/New Zealand Standard™

Fire hazard testing –

Part 11.2: Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance

STANDARDS AUSTRALIA

STANDARDS NEW ZEALAND
Paerewa Aotearoa

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 18 March 2004 and by the Council of Standards New Zealand on 26 March 2004. It was published on 31 May 2004.

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PREFACE

This standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers, to supersede AS/NZS 4695.2.41, on publication.

The objective of this Standard is provide guidance to manufacturers, designers testing laboratories and similar organizations on test methods to assess the fire hazard of electrotechnical products and for the resulting development of fire hazard testing as related directly to harm to people, animals or property.

Products as defined in this standard, relate to materials, components or complete end products.

This standard will be of interest to organizations concerned with the avoidance of risk of fire associated with buildings.

This Standard forms the first edition of AS/NZS 60695.11.2, *Fire hazard testing* - Part 11.2: *Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance.*

This Standard is identical to and is reproduced from IEC 60695-11-2:2003, *Fire hazard testing* - Part 11.2: *Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance.*

This standard is to be used in conjunction with AS/NZS 4695.2.40.

Clause 2 has been reformatted to indicate the Australia/New Zealand standard that is equivalent to the IEC standard or ISO standard to which normative reference is made.

As this Standard is reproduced from an International Standard, the following applies:

a) Its number does not appear on each page of text and its identity is shown on the cover and title page only.
b) In the source text "IEC 60695" should read "AS/NZS 60695".
c) A full point substitutes for a comma when referring to a decimal marker.

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.

IEC 60695-11-2 provides a general description of the apparatus required to produce the test flame and a general description of the principle of a calibration procedure to check that the flame produced meets the requirements. Detailed information for the confirmation of a test flame can be found in IEC 60695-11-40 [1]. [a]

[a] Numbers in square brackets refer to the bibliography.

FIRE HAZARD TESTING –

Part 11.2: Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance

1 Scope

This part of IEC 60695 gives the detailed requirements for the production of a 1 kW nominal propane based pre-mixed type test flame.

It is applicable to electrotechnical equipment, its sub-assemblies and components and to solid electrical insulating materials or other combustible materials.

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

International Standard	Year	*Title*	AU/NZ Standard	Year
IEC 60584-1	1995	*Thermocouples – Part 1: Reference tables*		
IEC 60584-2	1982	*Thermocouples – Part 2: Tolerances*		
IEC 60695-2-4/0	1991	*Fire hazard testing – Part 2: Test methods – Section 4/sheet 0: Diffusion type and premixed type flame test methods*	AS/NZS 4695.2.40	1996
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*		