

Australian/New Zealand Standard™

**Fire hazard testing**

**Part 4: Terminology concerning fire tests**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/2 - Safety of household and similar electrical appliances and small power transformers. It was approved on behalf of the Council of Standards Australia on 22 April 2002 and by the Council of Standards New Zealand on 21 March 2002. It was published on 13 May 2002.

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AS/NZS 60695.4:2002  
(IEC 60695-4:1993, IDT)

## Australian/New Zealand Standard™

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Fire hazard testing

Part 4: Terminology concerning fire tests  
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<p>Originated as AS/NZS 4695.4:1996 Revised and redesignated AS/NZS 60695.4:2002</p>
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Published jointly by Standards Australia International Ltd  
GPO Box 5420, Sydney, NSW 2001 Australia, and  
Standards New Zealand  
Private Bag 2439, Wellington 6020, New Zealand

ISBN 0 7337 4638 1

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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 4695.4:1996 from the date of publication.

The object of this Standard is to provide manufacturers and designers, testing laboratories and similar organizations, with defined terms that are applicable in fire hazard testing of electrotechnical products.

This Standard forms the first edition of AS/NZS 60695.4, *Fire hazard testing, Part 4: Terminology concerning fire tests*. It is a revision of AS/NZS 4695.4:1996 and incorporates that Standard's Amendment No 1 and it effects changes to clauses 2 and 3 of that Standard that were issued in draft form for comment as document DR 01960. Errors and omissions in AS/NZS 4695.4:1996 are also corrected.

This Standard is identical to and contains the full text of IEC 60695-4:1993, *Fire Hazard testing, Part 4: Terminology concerning fire tests*, including its amendment number 1 and amendment number 2.

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## AUSTRALIA/NEW ZEALAND STANDARD

### FIRE HAZARD TESTING –

#### Part 4: Terminology concerning fire tests (IEC 60695-4:1993, IDT)

#### 1 Scope

The terms defined in this Standard are applicable to fire tests.

#### 2 Terms and definitions

##### 2.1

##### **actual calorific value; heat release (J/kg)**

the calorific energy per unit mass which is released by the combustion of a material under specified test conditions (see also **gross calorific value** and **net calorific value**)

##### 2.2.

##### **afterflame**

persistence of flaming of a material under specified test conditions, after the ignition source has been removed

##### 2.3

##### **afterflame time**

the length of time during which an afterflame persists (also called duration of flaming)

##### 2.4

##### **afterglow**

persistence of glowing combustion of a material after cessation of flaming or, if no flaming occurs, after the ignition source has been removed

##### 2.5

##### **afterglow time**

the time length of during which an afterglow persists

##### 2.6

##### **arc resistance**

the ability of an insulating material to resist the influence of an electric arc along its surface, under specified test conditions

Note The arc resistance is identified by the length of the arc, the absence or presence of a conducting path, the burning or damage of the specimen under test

##### 2.7

##### **area burning rate (m<sup>2</sup>/s)**

area of a material burned per unit time under specified test conditions

##### 2.8

##### **ash; ashes**

mineral residues produced by complete combustion

##### 2.9

##### **burn (intransitive verb)**

to undergo combustion