

Australian/New Zealand Standard™

Fire Hazard Testing

**Part 10.2: Abnormal heat—Ball
pressure test**



AS/NZS 60695.10.2:2004

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 on behalf of the Council of Standards New Zealand on 26 March 2004.

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Business New Zealand
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This Standard was issued in draft form for comment as DR 03942.

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Part 10.2: Abnormal heat—Ball pressure test

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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 60695.10.2:2002 from the date of publication.

A1 | This Standard incorporates Amendment No. 1 (April 2006). The amendment is applicable from its date of publication. The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide guidance to manufacturers and designers, testing laboratories and similar organizations on the application of the ball pressure test for testing for resistance to heat of non-metallic materials in order to assess the fire hazard of electrotechnical products.

This Standard forms the second edition of AS/NZS 60695.10.2, *Fire hazard testing - Part 10.2: Abnormal heat - Ball pressure test*. It is a revision of AS/NZS 60695.10.2:2002 and it effects changes to the Title and clauses 1, 5, 6 and 7 and Figure 2 of that Standard that were issued in draft form for comment as document DR 03942.

A1 | This Standard is identical to and contains the full text of IEC 60695-10-2:2003, *Fire hazard testing - Part 10.2: Abnormal heat – Ball pressure test*, including its corrigendum 1 (02-2006)

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.

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FIRE HAZARD TESTING –
Part 10.2: Abnormal heat – Ball pressure test**1 Scope**

This part of IEC 60695 specifies the ball pressure test as a method for testing parts of non-metallic materials for resistance to heat.

It is applicable to electrotechnical equipment, its subassemblies and components, and to solid electrical insulating materials except ceramics.

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 60216-4-1	1990	<i>Guide for the determination of thermal endurance properties of electrical insulating materials – Part 4-1: Ageing ovens – Section 1: Single-chamber ovens</i>		
IEC Guide 104	1997	<i>The preparation of safety publications and the use of basic safety publications and group safety publications</i>		
ISO 3290	2001	<i>Rolling bearings – Balls – Dimensions and tolerances</i>		

3 General description of the test

With the test specimen at a temperature specified in the relevant specification, a specified downward force is applied through a steel ball and dimension d of the indentation is measured as described in 7.2.