

Australian/New Zealand Standard

Incandescent lamps—Safety specifications

Part 1: Tungsten filament lamps for domestic and similar general lighting purposes



AS/NZS 60432.1:2007

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-041, Lamps and Related Equipment. It was approved on behalf of the Council of Standards Australia on 1 June 2007 and on behalf of the Council of Standards New Zealand on 4 May 2007.

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OF

AS/NZS 60432.1:2007

**Incandescent lamps–Safety specifications
Part 1: Tungsten filament lamps for domestic
and similar general lighting purposes**

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment, to supersede AS 4091—1993, *Tungsten filament lamps for general service - Safety requirements*.

The objective of this Standard is to specify safety requirements for tungsten filament lamps for general lighting service.

This Standard is identical with, and has been reproduced from IEC 60432-1, Ed. 2.1 (2005), *Incandescent lamps—Safety specifications – Part 1: Tungsten filament lamps for domestic and similar general lighting purposes*.

This Standard is Part 1 of a series which, when complete, will consist of the following

AS/NZS

60432	Incandescent lamps—Safety specifications
60432.1	Part 1: Tungsten filament lamps for domestic and similar general lighting purposes (this Standard)
60432.2	Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes
60432.3	Part 3: Tungsten halogen lamps (non-vehicle)

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The terms 'normative' and 'informative' are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Incandescent lamps—Safety specifications****Part 1: Tungsten filament lamps for domestic and similar general lighting purposes****1 General****1.1 Scope**

International Standard IEC 60432-1 specifies the safety and interchangeability requirements of tungsten filament incandescent lamps for general lighting service having:

- rated wattage up to and including 200 W;
- rated voltage of 50 V to 250 V inclusive;
- bulbs of the A, B, C, G, M, P, PS, PAR or R shapes* , or other bulb shapes where the lamps are intended to serve the same purpose as lamps with the foregoing bulb shapes;
- bulbs with all kinds of finishes;
- caps B15d, B22d, E12, E14, E17, E26**, E26d, E26/50×39, E27 or E27/51×39.

As far as is reasonably practicable, this standard is also applicable to lamps with bulbs and caps other than those mentioned above, but which serve the same purpose.

This standard specifies the method a manufacturer should use to show that his product conforms to this standard on the basis of whole production appraisal in association with his test records on finished products. This method can also be applied for certification purposes. Details of a batch test procedure which can be used to make limited assessment of batches are also given.

This standard is concerned with safety criteria only and does not take into account the performance of tungsten filament lamps with respect to luminous flux, life or power consumption characteristics. Readers should refer to IEC 60064 for such characteristics with respect to types normally used for general lighting service.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments and revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

* See IEC 60887 for description of the letter symbols. Associated traditional names are:

- Pear shape = A, PS
- Mushroom = M
- Candle = B, C (in North America)
- Round bulb = P
- Globular = G
- Reflector = R
- Parabolic reflector = PAR

** There are two variations of E26 caps which are not fully compatible. In this standard separate references are made to E26/24 caps used in North America and E26/25 caps used in Japan.