

AS 3731.1—1995

IEC 623:1990

IEC 623:1990/Amd.1:1992

IEC 623:1990/Amd.2:1992

Australian Standard[®]

**Stationary batteries —
Nickel-cadmium**

Part 1: Vented type

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Australian Automobile Aftermarket Association
Australian Automobile Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Lead Development Association
Department of Defence, Australia
Electrical Development Association of New Zealand
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Australian Standard[®]

**Stationary batteries —
Nickel-cadmium**

Part 1: Vented type

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/5 on Secondary Batteries to supersede AS 3731.1—1989, *Stationary batteries—Nickel-cadmium, Part 1: Vented type*.

This Standard is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

This Standard is identical with and has been reproduced from IEC 623:1990, *Vented nickel-cadmium prismatic rechargeable single cells*, including Amendment No. 1:1992 and Amendment No. 2:1992. Amendments Nos. 1 and 2 are bound at the end of this Standard. The text affected by the Amendments is marked in the source document by double marginal bars.

The objective of this Standard is to provide users of vented nickel-cadmium batteries with specifications covering their construction and performance.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

This Standard is Part 1 of the following series:

AS	
3731	Stationary batteries—Nickel-cadmium
3731.1	Part 1: Vented type (this Standard)
3731.2	Part 2: Valve-regulated type

For the purposes of this Australian Standard the source text should be modified as follows:

- The words 'this Australian Standard' should replace 'this International Standard' wherever they appear.
- A full point (.) substitutes for a comma (,) when appearing as a decimal marker.
- The references to international Standards should be replaced by references to the following equivalent Australian or Joint Australian/New Zealand Standards:

<i>Reference to International Standard</i>		<i>Australian or Joint Australian/New Zealand Standard</i>	
IEC		AS	
51	Direct acting indicating analogue electrical-measuring instruments and their accessories	1042	Direct-acting indicating electrical measuring instruments and their accessories
410	Sampling plans and procedures for inspection by attributes	—	
417	Graphical symbols for use on equipment, code, survey and compilation of the single sheets	1104	Informative symbols for use on electrical and electronic equipment
485	Digital electronic d.c. voltmeters and d.c. electronic analogue-to-digital converters	—	

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AUSTRALIAN STANDARD

Stationary batteries—Nickel-cadmium

Part 1:
Vented type

SECTION 1: GENERAL

1.1 Scope

This international standard specifies tests and requirements for vented nickel-cadmium prismatic secondary single cells.

NOTE — In this context, “prismatic” refers to cells having rectangular sides and base.

When there exists an IEC standard specifying test conditions and requirements for cells used in special applications and which is in conflict with this standard, the former shall take precedence.

1.2 Normative references

The following standard contains provisions which, through reference in this text, constitute provisions of this international standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreement based on this international standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid international standards.

IEC 51: Direct acting indicating analogue electrical measuring instruments and their accessories.

IEC 410 (1973): Sampling plans and procedures for inspection by attributes.

IEC 417 (1973): Graphical symbols for use on equipment - Index, survey and compilation of the single sheets.

IEC 485 (1974): Digital electronic d.c. voltmeters and d.c. electronic analogue-to-digital converters.

1.3 Definitions

For the purpose of this international standard, the following definitions apply: