

AS 2402—1994

Australian Standard<sup>®</sup>

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**Traction batteries—Lead-acid**

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This Australian Standard was prepared by Committee EL/5, Secondary Batteries. It was approved on behalf of the Council of Standards Australia on 27 May 1994 and published on 15 August 1994.

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Australian Automobile Association  
Australian Automotive Aftermarket Association  
Australian Chamber of Commerce and Industry  
Australian Electrical and Electronic Manufacturers Association  
Australian Lead Development Association  
Department of Defence  
Electricity Supply Association of Australia  
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## PREFACE

This Standard was prepared by the Standards Australia Committee EL/5 on Secondary Batteries to supersede AS 2402—1980, *Lead-acid traction batteries*.

Major alterations to the previous edition are as follows:

- (a) Requirements for sealed valve-regulated cells have been added.
- (b) A test for charge retention has been added (Appendix F).
- (c) An optional test for the capacity of the battery at the  $\frac{1}{2}$  h discharge rate has been added.
- (d) Breakaway current, cranking current, and repeat starting tests have been added for engine starting batteries.

In this Standard, the dimensions of traction battery cells, requirements for measuring instruments, rated capacity and the battery test life are based on IEC 254-1, *Lead-acid traction batteries, Part 1: General requirements and methods of test*, and IEC 254-2, *Lead-acid traction batteries, Part 2: Dimensions of cells and terminals and marking of polarity on cells*. Additional requirements not covered by these IEC Publications have been included to cover Australian conditions. Acknowledgment is made of the assistance received from BS 2550, *Specification for lead-acid traction batteries*.

The useful life obtained from a battery is also dependent on the performance of the battery charger. Performance requirements for battery chargers for lead-acid batteries are specified in AS 2548, *Battery chargers for lead-acid traction batteries—Performance requirements*.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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