

Australian Standard<sup>®</sup>

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**Powered industrial trucks**

**Part 12: Hazardous areas**

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This Australian Standard was prepared by Committee ME/26, Industrial Trucks. It was approved on behalf of the Council of Standards Australia on 27 September 1995 and published on 5 January 1996.

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The following interests are represented on Committee ME/26:

Association of Employers of Waterside Labour  
Australian Chamber of Commerce and Industry  
Australian Industrial Truck Association  
Department of Occupational Health, Safety and Welfare, W.A.  
Metal Trades Industry Association of Australia  
Occupational Health and Safety Authority, Victoria  
Port of Melbourne Authority  
WorkCover Authority of N.S.W.

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*This Standard was issued in draft form for comment as DR 94068.*

AS 2359.12—1996

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PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7337 0144 2

## PREFACE

This Standard was produced by the Standards Australia Committee on Industrial Trucks to supersede, in part, AS 2359.1—1985, *SAA Industrial Truck Code, Part 1: Design and manufacture*.

That original edition has been extensively modified in two ways: first by being split into several parts and second, by having much of the original material replaced with ISO documents, to which the Australian versions are technically equivalent.

This Standard is Part 12 of the new series. As is the case with Parts 1 and 2, it is entirely local in content and contains no international material.

Other Standards in this series are as follows:

- Part 1: General requirements
- Part 2: Operation
- Part 3: Counterbalanced fork-lift trucks—Stability tests
- Part 4: Reach and straddle fork-lift trucks—Stability tests
- Part 5: Control symbols
- Part 6: Safety code
- Part 7: Terminology
- Part 8: Pallet stackers and high-lift platform trucks—Stability tests
- Part 9: High-lift rider trucks—Overhead guards—Specification and testing
- Part 10: Fork-lift trucks—Hook-on type fork arms—Vocabulary
- Part 11: Fork-lift trucks—Hook-on type fork arms and fork carriers—Mounting dimensions

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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Originated as part of AS B270—1968.  
Previous edition AS 2359.1—1985.  
Revised and redesignated in part as AS 2359.12—1996.

**STANDARDS AUSTRALIA****Australian Standard****Powered industrial trucks****Part 12: Hazardous areas**

**1 SCOPE** This Standard specifies requirements that can be applied to a vehicle, so that the vehicle is able to operate safely in areas that may be hazardous because of the presence of an explosive gas/vapour atmosphere or combustible dusts. This part should be read in conjunction with any other relevant parts of this series. Procedures for the maintenance of vehicles in hazardous areas are given in Appendix A and performance testing requirements are given in Appendix B.

**NOTES:**

- 1 Explosive gas atmospheres and combustible dusts are classified in accordance with the appropriate parts of AS 2430.
- 2 This Standard does not apply to —
  - (a) areas where inherently explosive dusts are present; and
  - (b) underground working of coal mines.
- 3 Precautions should be taken to reduce accidents from hazards other than explosive gas atmospheres and combustible dusts. Actual and potential hazards can arise from the following:
  - (a) Poor visibility.
  - (b) Floor or ground surfaces which are low-friction, excessively rough or excessively sloping.
  - (c) Toxic atmospheres.
  - (d) Restricted ventilation that may allow carbon monoxide to increase or oxygen to reduce.
  - (e) Dusts that may be conductive and so create a short-circuit causing a vehicle to run out of control, particularly if the vehicle is electrically powered.
  - (f) Inadequate maintenance.

**2 REFERENCED DOCUMENTS** The following documents are referred to in this Standard:

**AS**

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|--------|--|
| 1019   | Internal combustion engines—Spark emission control devices                                   |
| 1915   | Electrical equipment for explosive atmospheres—Battery-operated vehicles                     |
| 2236   | Electrical equipment for explosive atmospheres—Dust-excluding ignition-proof (DIP) enclosure |
| 2359   | Powered industrial trucks  |
| 2359.1 | General requirements   |
| 2380   | Electrical equipment for explosive atmospheres—Explosion-protection techniques               |
| 2380.1 | Part 1: General requirements   |
| 2381   | Electrical equipment for explosive atmospheres—Selection, installation and maintenance       |