

1999 ed.

Australian Standard®

Road tank vehicles for dangerous goods

Part 2: Tankers for flammable liquids



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STANDARDS AUSTRALIA



This Australian Standard was prepared by Committee ME/57, Road Tankers for Hazardous Liquids and Gases. It was approved on behalf of the Council of Standards Australia on 14 November 1989 and published on 7 May 1990.

The following interests are represented on Committee ME/57:

Aluminium Development Council
Australian Chemical Industry
Australian Gas Association
Australian Institute of Petroleum
Australian Liquefied Petroleum Gas Association
Australian Road Research Board
Australian Road Transport Federation
Australian Valve Manufacturers Association
Commercial Vehicle Industry Association of Australia
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Part 2: Tankers for flammable liquids

First published as part of AS 2016—1977.
Second edition 1982.
Revised and redesignated in part as AS 2809.2—1985.
Second edition 1990.

PREFACE

This Standard was prepared by the Standards Australia Committee on Road Tankers for Hazardous Liquids and Gases, to supersede AS 2809.2—1985. The main purpose of the edition is to incorporate a new Section 3, and the opportunity was taken to absorb two amendments.

Section 3 includes material on vehicle maintenance, a subject that had previously been within the scope of AS 2017, *Rules for safety procedures affecting the operation, maintenance and repair of road tank vehicles for flammable liquids*. When revising that Standard during 1988, it was realized that much of its contents had been covered by the Australian Dangerous Goods Code, and so little remained of AS 2017, that it was decided to withdraw it and transfer the useful information to AS 2809.2.

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Part 2: Tankers for flammable liquids

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard specifies requirements for the design and construction of tankers for the transport of flammable liquids. It is complementary to AS 2809.1.

1.2 APPLICATION. Tankers for the transport of flammable liquids shall comply with Parts 1 and 2 of this Standard. Where any requirement of this Part differs from a similar requirement in Part 1, this Part shall take precedence.

NOTE: Tankers that have to be verified by a Weights and Measures Authority for trade use need to comply with National Standards Commission requirements for Certificate and Approval 9/0/A.

1.3 NEW DESIGNS AND INNOVATIONS. Any novel materials, designs, method of assembly, procedures, etc., which do not comply with specific requirements of this Standard, or are not mentioned in it, but which give equivalent results to those specified, are not necessarily prohibited. The Standards Australia Committee on Road Tankers for Hazardous Liquids and Gases can act in an advisory capacity concerning equivalent suitability, but the specific approval remains the prerogative of the Authority.

1.4 INTERPRETATIONS. Questions concerning the meaning, application, or effect of any part of this Standard may be referred to the Standards Australia Committee on Road Tankers for Hazardous Liquids and Gases for explanation. The authority of the committee is limited to matters of interpretation and it will not adjudicate in disputes.

1.5 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

| | |
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| AS | |
| 1076 | Code of practice for selection, installation and maintenance of electrical apparatus and associated equipment for use in explosive atmospheres (other than mining applications) |
| 1076.1 | Part 1: Basic requirements |
| 1204 | Structural steels—Ordinary weldable grades |
| 1205 | Structural steels—Weather-resistant weldable grades |
| 1210 | SAA Unfired Pressure Vessels Code |
| 1250 | SAA Steel Structures Code |
| 1271 | Valves, water gauges and other fittings for boilers and unfired pressure vessels |
| 1449 | Wrought alloy steels—Stainless and heat-resisting steel plate, sheet and strip |
| 1554 | SAA Structural Steel Welding Code |
| 1664 | SAA Aluminium Structures Code |
| 1665 | SAA Aluminium Welding Code |

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|--------|---|
| 1734 | Aluminium and aluminium alloys—Flat sheet, coiled sheet and plate |
| 1866 | Aluminium and aluminium alloys—Extruded rod, bar, solid and hollow shapes |
| 1874 | Aluminium and aluminium alloys—Ingots and castings |
| 1940 | SAA Flammable and Combustible Liquids Code |
| 2683 | Hose and hose assemblies for distribution of petroleum and petroleum products (excepting LPG) |
| 2809 | Road tank vehicles for dangerous goods |
| 2809.1 | Part 1: General requirements |
| 2865 | Safe working in a confined space |
| AIP | |
| CP13 | Code of practice for road and rail tanker, gas-freeing and work authorisation |
| 2000 | Venting atmospheric and low-pressure storage tanks |

1.6 DEFINITIONS. For the purpose of this Standard, the definitions given in AS 2809.1 apply.

1.7 VEHICLE REQUIREMENTS.

1.7.1 Spillage hazards. The appropriate requirements of AS 2809.1 and the following requirements shall apply:

- Any portion of an engine or exhaust system which by reason of its location can be reached by spillage from above, whether the tanker is parked or moving, or which is within 1 m of a liquid-carrying component of the pumping system, shall be protected from such spillage by a metal shield.
- The distance between the shield and any hot part of the engine or exhaust shall be not less than 50 mm.
- The distance between the shield and any cargo-carrying component shall be not less than 75 mm.
- The shield for a vertical exhaust pipe shall extend as nearly as practicable to the full height of the pipe, but not lower than the top of the tank, and shall be sealed to it liquid-tight at the top. The shield shall be at least 100 mm larger in diameter than the exhaust pipe. Any openings or perforations for ventilation shall be located on the side remote from the tank.