

Australian Standard™

Road tank vehicles for dangerous goods

**Part 5: Tankers for bitumen-based
products**



This Australian Standard was prepared by Committee ME-057, Road Tanker for Hazardous Liquids and Gases. It was approved on behalf of the Council of Standards Australia on 14 August 2001 and published on 8 October 2001.

The following interests are represented on Committee ME-057:

Australasian Fire Authorities Council
Australian Chamber of Commerce and Industry
Australian Gas Association
Australian Industrial Gas Manufacturers Association
Australian Industry Group
Australian Institute of Petroleum
Australian Liquefied Petroleum Gas Association
Australian Valve Manufacturers Association
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Part 5: Tankers for bitumen-based products

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-057, Road Tankers for Hazardous Liquids and Gases to supersede AS 2809.5 — 1990.

While certain grades of bitumen-based products are flammable liquids, and AS 2809.2, *Road tank vehicles for dangerous goods, Part 2: Tankers for flammable liquids*, was intended to cover all types of flammable liquids, there are certain peculiarities of bitumen that necessitated special treatment, not the least of these being the complex and variable method of operation of the industry.

In field and operational matters, it is recommended that reference be made to the procedural guidelines in the 'Austroads Bitumen Sealing Safety Guide'.

Amongst other aspects requiring special consideration are the tank design requirements, which differ substantially from other flammable liquids tankers. Bulkheads are not used, and the options for construction material are fewer, so the table of shell thickness has been simplified. It seems possible to simplify it further as more thought is given to the special case of bitumen. A complex relationship between longitudinal and circumferential stiffeners has been dropped.

A new appendix has been added in this revision to expand the details of burners and controls. These details would cover the necessary safety issues should permission be given by the appropriate authority to allow heating in transit.

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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STANDARDS AUSTRALIA

Australian Standard**Road tank vehicles for dangerous goods****Part 5: Tankers for bitumen-based products**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the design and construction of tankers for the transport of bitumen-based products including bitumen sprayers. It is complementary to AS 2809.1.

1.2 APPLICATION

Tankers for the transport of bitumen-based products shall comply with Parts 1 and 5 of this Standard. Where any requirement of Part 5 differs from a similar requirement in Part 1, Part 5 shall take precedence.

1.3 NEW DESIGNS AND INNOVATIONS

Any novel materials, designs, methods 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 ME-057, 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 relevant Authority.

1.4 INTERPRETATIONS

Questions concerning the meaning, application, or effect of any part of this Standard may be referred to the Committee ME-057, 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:

AS	
1160	Bituminous emulsions for construction and maintenance of pavements
1210	Pressure vessels
1375	Industrial fuel-fired appliances (known as the SAA Industrial Fuel-fired Appliances Code)
1449	Wrought alloy steels—Stainless and heat-resisting steel plate, sheet and strip
1657	Fixed platforms, walkways, stairways and ladders—Design, construction and installation
1853	Automatic oil and gas burners—Mechanical draught