



## **Road tank vehicles for dangerous goods**

### **Part 6: Tankers for cryogenic liquids**



AS 2809.6:2019

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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 2809.6—2001. It is complementary to AS 2809.1, *Road tank vehicles for dangerous goods, Part 1: General requirements*, and provides requirements that are specifically applicable to road tankers for cryogenic liquids.

This revision includes the following changes:

- (a) Removing requirements within the scope of other Standards that have been adequately covered in those Standards, for example, pressure vessel requirements within the scope of AS 1210, *Pressure vessels*, and inspection requirements within the scope of AS/NZS 3788, *Pressure equipment — In-service inspection*.
- (b) Revision of LNG coupling requirements to align with international Standards and AS 3961, *The storage and handling of liquefied natural gas, and allow for the use of dry break couplings*.
- (c) Revision of the outlet control requirements for flammable and toxic cargo and cargo transfer controls.

The term 'normative' is used in Standards 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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# Australian Standard®

## Road tank vehicles for dangerous goods

### Part 6: Tankers for cryogenic liquids

#### Section 1 Scope and general

##### 1.1 Scope and application

###### 1.1.1 Scope

This Standard specifies requirements for the design and construction of road tankers for the transport of certain listed cryogenic liquids. It provides for vehicles which are specifically designed and constructed as road tankers, or which are conventional trucks provided with transportable tanks for use as tankers. It is complementary to Part 1 (i.e. AS 2809.1), which provides general requirements for all road tankers.

NOTE Although carbon dioxide and nitrous oxide are not true cryogenic liquids according to the conventional definition (see AS 2809.1), they are included in the scope of this Standard.

###### 1.1.2 Application

Tankers for the transport of cryogenic liquids shall conform to the requirements of this Standard and AS 2809.1. [Sections 1](#) and [2](#) of this Standard shall apply to all tankers, and [Section 3](#) shall apply additionally where the cargo is flammable or toxic.

NOTE Carbon monoxide is defined in the ADG Code as being primarily a flammable gas, with toxicity as a subsidiary risk. The approach reflected in this Standard is that the two risks are of equal rank, and that the toxicity risk requires the same design safeguards as the flammability risk.

##### 1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 1210, *Pressure vessels*

AS 1349, *Bourdon tube pressure and vacuum gauges*

AS 2809, *Road tank vehicles for dangerous goods*

AS 2809-1, *Road tank vehicles for dangerous goods, Part 1: General requirements*

AS 3992, *Pressure equipment — Welding and brazing qualification*

AS 4037, *Pressure equipment — Examination and testing*

AS 4041, *Pressure piping*

AS/NZS 3788, *Pressure equipment — In-service inspection*

AS/NZS 4481, *Pressure equipment — Competencies of inspectors*

AS/NZS 60079, *Explosive atmospheres*

AS/NZS 60079-10.1, *Explosive atmospheres, Part 10.1: Classification of areas — Explosive gas atmospheres (IEC 60079-10-1:2008, MOD)*