

Australian Standard[®]

Gas cylinder test stations

**Part 3: Transportable gas cylinders—
Periodic inspection and testing of
composite gas cylinders
(ISO 11623:2002, MOD)**



This Australian Standard® was prepared by Committee ME-002, Gas Cylinders. It was approved on behalf of the Council of Standards Australia on 7 September 2006. This Standard was published on 11 October 2006.

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 - Australasian Institute of Engineer Surveyors
 - Australia New Zealand Industrial Gas Association
 - Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Liquefied Petroleum Gas Association
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 - Institute of Materials Engineering Australasia
 - International Association for Natural Gas Vehicles
 - Pressure Equipment Association Incorporated
 - The Australian Gas Association
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 - Welding Technology Institute of Australia
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-

This Standard was issued in draft form for comment as DR 06199.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2337.3—2006

Gas cylinder test stations

Part 3: Transportable gas cylinders—Periodic inspection and testing of composite gas cylinders (ISO 11623:2002, MOD)

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 22 May 2017.

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NOTES

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Part 3: Transportable gas cylinders— Periodic inspection and testing of composite gas cylinders (ISO 11623:2002, MOD)

Originated as AS 2337.3—1987.
Previous edition 1998.
Third edition 2006.
Reissued incorporating Amendment No. 1 (November 2007).

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Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia
ISBN 0 7337 7769 4

PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand ME-002, Gas Cylinders to supersede AS 2337.3—1998, *Gas cylinder test stations—Inspection and testing of fibre reinforced plastic (FRP) gas cylinders*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than Australian/New Zealand Standard.

This Standard incorporates Amendment No. 1 (November 2007). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

This Standard is an adoption with national modifications and is reproduced from ISO 11623:2002, *Transportable gas cylinders—Periodic inspection and testing of composite gas cylinders*.

Variations to the source document for application in Australia are contained in Appendix ZZ and the text affected is indicated by a marginal bar.

Statements expressed in mandatory terms in notes to Table ZZ1 are deemed to be requirements of this Standard.

The decision to replace AS 2337.3—1998 with an ISO adoption was based on a number of factors:

- (a) There is currently no manufacture of Composite cylinders to an Australian Standard, and hence no requirement for inspection or test parameters that are uniquely Australian.
- (b) ISO 11623 has evolved to become a technically superior Standard concerning the examination and testing requirements of composite cylinders, and one which is not in conflict with AS 2337.3.
- (c) The adoption of ISO Standards such as this one is consistent with the policy of Standards Australia.

As this Standard is reproduced from an International Standard, the following applies:

- (i) Its number appears on the cover and title page only.
- (ii) A full point substitutes for a comma when referring to a decimal marker.
- (iii) Substitute ‘mL’ for ‘ml’ whenever it appears.
- (iv) The documents listed as normative references in Clause 2 have not been adopted as Australian Standards. See Appendix ZZ.

The terms ‘normative’ and ‘informative’ are used in this Standard to define the application of the annexes and appendices to which they apply. A ‘normative’ annex or appendix is an integral part of a Standard, whereas an ‘informative’ annex or appendix is for information and guidance only.

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AUSTRALIAN STANDARD

Gas cylinder test stations**Part 3:****Transportable gas cylinders—Periodic inspection and testing of composite gas cylinders (ISO 11623:2002, MOD)****Introduction**

The principal aim of periodic inspection and testing is that at the completion of the test the cylinders may be reintroduced into service for a further period of time. It is not possible to identify all considerations for inspecting and re-testing of composite cylinders in this publication. Questions regarding specific cylinders should be directed to the manufacturer.

1 Scope

This standard specifies the requirements for periodic inspection and testing of hoop wrapped and fully wrapped composite transportable gas cylinders, with aluminium, steel or non-metallic liners or of linerless construction, intended for compressed, liquefied or dissolved gases under pressure, of water capacity from 0,5 l up to 450 l.

NOTE As far as practicable, this standard may also be applied to cylinders of less than 0,5 l water capacity.

This standard specifies the requirements for periodic inspection and testing to verify the integrity of such gas cylinders for further service.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 629-2:1996, *Transportable gas cylinders - 25E taper thread for connection of valves to gas cylinders - Part 2: Gauge inspection*

EN 1089-1, *Transportable gas cylinders — Gas cylinder identification (excluding LPG) — Part 1: Stampmarking*

EN 1089-2, *Transportable gas cylinders — Gas cylinder identification (excluding LPG) — Part 2: Precautionary labels*

EN 1089-3, *Transportable gas cylinders — Gas cylinder identification — Part 3: Colour coding*

EN 1795, *Transportable gas cylinders (excluding LPG) — Procedures for change of gas service*

prEN 1802, *Transportable Gas cylinders — Periodic inspection and testing of seamless aluminium alloy gas cylinders*

prEN 1968, *Transportable gas cylinders — Periodic inspection and testing of seamless steel gas cylinders*

prEN 13096, *Transportable gas cylinders — Filling conditions for single gases*

ISO 32:1977, *Gas cylinders for medical use — Marking for identification of content*

ISO 6406: 1992, *Periodic inspection and testing of seamless steel gas cylinders*

ISO 7225:1994, *Gas cylinders — Precautionary labels*

ISO 10461: 1993, *Seamless aluminium-alloy gas cylinders; periodic inspection and testing*

ISO 11114-1:1997, *Transportable gas cylinders — Compatibility of cylinder and valve materials with gas contents — Part 1: Metallic materials*