

Australian Standard[®]

**LP Gas—Portable and mobile
appliances**

STANDARDS
Australia



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The following are represented on Committee AG-001:

- AGA Certification Services
 - Appliance and Component Testing
 - Australian Greenhouse Office, Department of the Environment and Heritage
 - Consumers' Federation of Australia
 - Gas Appliance Manufacturers Association of Australia
 - Gas Association New Zealand
 - Gas Technical Regulators Committee
 - Gas Utilisation Institute
 - LPG Australia
 - Master Plumbers, Gasfitters and Drainlayers New Zealand
 - Ministry of Consumer Affairs New Zealand
 - New Zealand Employers and Manufacturers Association
-

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**LP Gas—Portable and mobile
appliances**

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PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee AG-001, Gas appliances to supersede both AS 2658—1988 and AS 2658—2003, LP Gas—Portable and mobile appliances. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

This Standard incorporates Amendment No. 1 (November 2009), Amendment No. 2 (February 2011) and Amendment No. 3 (June 2013). The changes required by the Amendments are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide uniform minimum requirements for the safe design and performance of LP Gas portable and mobile appliances supplied with gas at vapour pressure.

In the writing of this standard the committee considered relevant content from underwriters Laboratories Inc (UL), Japan Industrial Standards (JIS), Korean Industrial Standards (KIS), American National Standards Institute (ANSI), EN (CEN-European Committee for Standardisation) Standards.

This Standard should not be regarded as a design specification or as an instruction manual.

In its preparation, consideration has been given to—

- (a) continuity of satisfactory operation of appliances and equipment;
- (b) the prevention of fire hazards, and explosions;
- (c) the prevention of injury to persons or property;
- (d) gas rules and regulations now in force; and
- (e) relevant International Standards.

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

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

The principal differences between this edition and AS 2658—2003 are—

- (i) the addition of requirements for portable water heaters;
- (ii) amendments to requirements for cookers; and
- (iii) amendments to test pressures.

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STANDARDS AUSTRALIA

Australian Standard
LP Gas—Portable and mobile appliances

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard applies to various types of portable appliances:

- A3 | (a) Supplied from a separate gas container with vaporized LP Gas to the inlet at the vapour pressure and designed to be used—
- (i) with cartridges complying with EN 417, UL 147A/B (or equivalent);
 - (ii) for connection directly or by flexible hose assembly to an LP Gas supply cylinder complying with AS 2030.1 (or equivalent); or
 - (iii) with non-refillable DOT 39 LP Gas cylinders with a maximum water capacity of 2 L.

NOTE: The gas pressure at the burner orifice may be regulated to its vapour pressure.

- (b) Having an integral gas supply with gas storage in excess of 50 mL water capacity.

Types of portable appliances covered are:

- (i) Cooking appliances (hotplates, ovens, grills, barbecues).
- (ii) Space heating appliances designed for outdoor use not exceeding 12 MJ/h (250 g/h).
- (iii) Lighting appliances designed for outdoor use.
- (iv) Hand-held heating tools.
- (v) Portable water heaters designed for outdoor use not exceeding 30 MJ/h (620 g/h).

A3 | This Standard does not cover refrigerators or appliances that—

- (A) incorporate a regulator hose assembly where the hose is subject to regulated pressure, with the exception of ring burners;
- (B) are intended for connection to the mains electricity supply;
- (C) incorporate a fixed LP gas supply container which may or may not be refillable;
- (D) are intended for connection to a fixed piping system in a building, caravan or boat; or
- (E) incorporate an enclosed cartridge and are intended for commercial use.

Appliances covered by this Standard are not designed for connection to a flue for the discharge of products of combustion.

NOTES:

- 1 Requirements for storage and handling of LP Gas indoors and outdoors are specified in AS/NZS 1596.
- 2 Requirements for gas cylinders are specified in AS 2030.
- A3 | 3 Requirements for cooking appliances designed to operate with regulated inlet pressure are specified in AS 4551.
- 4 Requirements for water heaters designed to operate with regulated inlet pressure are specified in AS 4552.