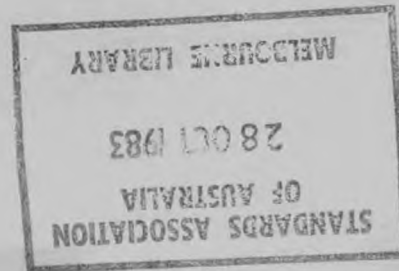


# Australian Standard 2658—1983

1988ed

## LIQUEFIED PETROLEUM (LP) GAS—PORTABLE AND MOBILE APPLIANCES



2658—1988 Liquefied petroleum (LP) gas portable and mobile appliances A4 33pp F

Specifies requirements for mechanical design, gas lines and connections, ergonomic requirements and a full range of safety and performance tests for portable and mobile LP gas appliances used primarily within the leisure industry; i.e. portable and mobile barbeques and cookers, portable space heaters, gas lights and portable and mobile refrigerators and freezers.

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**STANDARDS ASSOCIATION OF AUSTRALIA**  
*Incorporated by Royal Charter*

This Australian standard was prepared by Committee CS/52, Portable LP Gas Appliances. It was approved on behalf of the Council of the Standards Association of Australia on 16 August 1983 and published on 7 October 1983.

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The following interests are represented on Committee CS/52:

Australian Consumers Association  
Australian Gas Association  
Australian Liquefied Petroleum Gas Association  
Australian Retailers Association  
Confederation of Australian Industry  
Department of Consumer Affairs, N.S.W.  
Department of Home Affairs and Environment  
Department of Industrial Relations, N.S.W.  
Department of Mines, Qld  
Gas Appliance Manufacturers Association of Australia  
Metal Trades Industry Association of Australia

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*This standard was issued in draft form for comment as DR 82044.*

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AMENDMENT No 1

to

AS 2658-1983

LIQUEFIED PETROLEUM (LP) GAS - PORTABLE AND MOBILE APPLIANCES

REVISED TEXT

The 1983 edition of AS 2658 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This amendment applies to Clause 2.7 and Paragraph 01.

Published on

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Page 2. Preface

Add the following new paragraph at the end of the preface:

This edition is substantially the same as the previous edition, but it introduces a new general requirement for the security of adjusting devices.

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Page 7. Clause 2.7.3.

Add the following new Clause:

2.7.4 Adjusting devices. Adjusting devices shall be provided with locking arrangements which shall be sufficiently positive to prevent subsequent movement, either through accident or through the creep of sealing material. The tightening of a locking device shall not alter the setting.

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Page 28. Appendix O, Paragraph 01.

Delete the word 'numbers' and substitute 'burners'.

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*also, correct mis alignment on Table N1, page 27.*

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**AUSTRALIAN STANDARD**

**LIQUEFIED PETROLEUM (LP)  
GAS—PORTABLE AND MOBILE  
APPLIANCES**

**AS 2658—1983**

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## PREFACE

This standard was prepared by the Association's Committee on Portable LP Gas Appliances in response to a request by the Australian Gas Association.

The standard embodies most of the requirements set out in Australian Gas Industry Code AG 113—1978, Approval Requirements for Leisure Type Appliances, issued by the Australian Gas Association and the Australian Liquefied Petroleum Gas Association, and the assistance received from these organizations is gratefully acknowledged.

There are two main areas where this standard diverges from AG 113: details of the AGA Appliance Approval Scheme are not included since these are covered in the AGA's own documents, and the subjects of surface temperatures and the guarding of space heaters have been dealt with by reference to AS 2285, Guarding of Domestic Heating Appliances for Protection Against Fire and Burn Injury, in order that uniform requirements be applicable to the guarding of all types of heaters. The requirements of AS 2285 are, in this respect, substantially similar (though not identical) to those of AG 113.

Although the original intention of this standard was to cover portable and mobile LP gas appliances which found their markets mainly in the leisure type industries, the committee, in the course of its work on the standard, considered that there may be some appliances which should be covered by this standard but fail to be strictly encompassed by the definition of the term 'leisure'. Accordingly, the term 'leisure' has not been embodied in the scope of the standard. Nevertheless, the scope of the standard is confined to portable and mobile appliances which are intended to operate from a locally associated LP gas cylinder.

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## CONTENTS

	<i>Page</i>		<i>Page</i>
<b>SECTION 1. SCOPE AND GENERAL</b>		<b>SECTION 6. ADDITIONAL REQUIREMENTS FOR GAS LIGHTS</b>	
1.1 Scope ....	4	6.1 Quality ....	10
1.2 Application ....	4	<b>SECTION 7. ADDITIONAL REQUIREMENTS FOR REFRIGERATORS AND FREEZERS</b>	
1.3 Referenced Documents ....	4	7.1 Cabinet Temperature ....	10
1.4 Definitions ....	4	<b>APPENDICES</b>	
<b>SECTION 2. GENERAL REQUIREMENTS</b>		A Preparation for Testing ....	11
2.1 Scope of Section ....	6	B Stability Test for Free-standing Appliances ....	11
2.2 General Requirements for Portable and Mobile Appliances ....	6	C Gas Leakage Test for Fully Assembled Appliances ....	12
2.3 Special Requirements for Components	6	D Gas Consumption Test for Unregulated Appliances ....	13
2.4 Mechanical Design ....	6	E Gas Consumption Test for Regulated Appliances ....	14
2.5 Materials and Finishes ....	6	F Test for Temperature Hazards ....	16
2.6 Gas Connections ....	6	G Heat Resistance Test ....	17
2.7 Design for Use ....	7	H Heat Resistance Test—Lit-back Condition ....	18
2.8 Design for Maintenance ....	7	J Normal Ignition Test ....	19
2.9 Tests Using Test Gases ....	7	K Delayed Ignition Test ....	20
2.10 Gas Leakage ....	7	L Determination of CO/CO <sub>2</sub> Ratio in Combustion Products ....	21
2.11 Gas Consumption ....	7	M Determination of CO/CO <sub>2</sub> Ratio in Combustion Products of Surface Combustion Burners ....	24
2.12 Temperature Hazards ....	7	N Test for Thermal Efficiency of Hotplate Burners ....	25
2.13 Heat Resistance ....	7	O Test for Flame Stability-to-Draught of Hotplate Burners....	28
2.14 Ignition ....	8	P Test for Flame Stability-to-Draught of Appliance Burners Other Than Hotplate Burners ....	29
2.15 Combustion Tests ....	8	Q Pan Stability Test ....	30
2.16 Instructions and Marking ....	8	R Vitiation Test ....	31
<b>SECTION 3. ADDITIONAL REQUIREMENTS FOR COOKERS</b>		S Unreacted Fuel Determination ....	33
3.1 Hotplate Burners ....	9	T Refrigerator and Freezer Performance Test ....	34
3.2 Ovens ....	9	U Test of Marking ....	35
<b>SECTION 4. ADDITIONAL REQUIREMENTS FOR PORTABLE SPACE HEATERS</b>		V Test Gases and Pressures ....	36
4.1 Marking ....	9		
4.2 Vitiation ....	9		
4.3 Guarding of Portable Space Heaters ....	9		
<b>SECTION 5. ADDITIONAL REQUIREMENTS FOR BARBECUES</b>			
5.1 Flame Stability....	10		
5.2 Design ....	10		

## STANDARDS ASSOCIATION OF AUSTRALIA

**Australian Standard**  
for  
**LIQUEFIED PETROLEUM (LP) GAS—PORTABLE AND MOBILE APPLIANCES**

## SECTION 1. SCOPE AND GENERAL

**1.1 SCOPE.** This standard specifies requirements for portable and mobile LP gas appliances, connected directly or by flexible hose to a single LP gas supply cylinder, such appliances being used for cooking, refrigeration, lighting or heating and being operative when supplied with liquefied petroleum gas at either cylinder or regulated pressures.

## NOTES:

1. This standard does not cover appliances which are intended for connection to a fixed piping system as in a building, caravan or boat.
2. Requirements for gas cylinders are specified in AS 2030.

**1.2 APPLICATION.** Portable and mobile LP gas appliances shall comply with the requirements of Section 2, and with the requirements of the following Sections according to the nature of the appliance:

- (a) Cookers ..... Section 3.
- (b) Portable Space Heaters ..... Section 4.
- (c) Barbecues ..... Section 5.
- (d) Gas Lights ..... Section 6.
- (e) Refrigerators and Freezers ..... Section 7.

**1.3 REFERENCED DOCUMENTS.** The following standards are referred to in this standard:

- AS 1596 SAA LP Gas Code  
 AS 1869 Liquefied Petroleum Gases (LPG)—Hose and Hose Assemblies  
 AS 1881 Zinc Alloy Ingots (for Pressure Diecasting) and Zinc Alloy Pressure Diecastings  
 AS 2030 SAA Gas Cylinders Code  
 AS 2136 Method for Detecting the Susceptibility of Copper and its Alloys to Stress Corrosion Cracking Using the Mercurous Nitrate Test  
 AS 2285 Guarding of Domestic Heating Appliances for Protection Against Fire and Burn Injury

**1.4 DEFINITIONS.** For the purpose of this standard, the following definitions apply:

**1.4.1 Barbecue**—an underfired cooking unit with either an open grid or solid cooking top. Food is cooked by a combination of radiant and/or convected heat and may be assisted by flared fat.

**1.4.2 Burner head**—the component of the burner from which gas or an air/gas mixture is discharged for the purpose of combustion, the flame from which is stabilized.

**1.4.3 Burner port**—the opening in a burner through which gas or an air/gas mixture issues to be ignited and burned.

**1.4.4 Flame abnormality**—a flame condition which results in lifting, floating, lighting back, appreciable yellow tipping, carbon deposition or objectionable odour.

**1.4.5 Flame safeguard**—a safety device which automatically cuts off the gas supply if the actuating flame is extinguished.

**1.4.6 Gas consumption**—a measure of the energy introduced into an appliance under specified conditions, expressed in megajoules per hour or grams per hour.

**1.4.7 Gas pressure regulator**—a device which automatically regulates, to a predetermined value, the outlet pressure or outlet volume of gas passing therethrough.

**1.4.8 Gas rail or gas manifold**—a common supply pipe or chamber into which tappings are made to supply gas to a plurality of burners.

**1.4.9 Griller**—an appliance for cooking food by radiant heat.

**1.4.10 Injector**—a device which causes air to mix with a stream of gas. For an aerated burner, it incorporates an orifice discharging gas into the burner mixing tube.

**1.4.11 Mixing tube**—that part of an aerated burner in which the air and gas are mixed.

**1.4.12 Mobile appliance**—an appliance with one or more wheels, designed to be easily moved from place to place by one person.

**1.4.13 Nominal gas consumption**—the gas consumption as stated by the manufacturer on the appliance data plate, in instructions and in general communications. (See Clause 1.4.6.)

**1.4.14 Nominal inlet pressure**—the gas pressure at the appliance inlet or test point (if provided), as nominated by the manufacturer to give the nominal gas consumption. (See Clause 1.4.13.)

**1.4.15 Orifice**—an accurately drilled hole in the injector, which functions as a metering device to control the gas consumption of a burner. It is also a directional guide for the gas injected into the burner throat.

**1.4.16 Oven**—that portion of a gas cooker or separate unit, consisting of an enclosed, insulated cabinet in which food is cooked.

**1.4.17 Overload gas consumption**—the gas consumption when overload inlet pressure, appropriate to the appliance and to the gas in use, is applied to the inlet of the appliance. (See Clause 1.4.6.)