AS 4623—2008

Australian Standard®

Jointing compounds and materials for use in gas pipe joints

This Australian Standard® was prepared by Committee AG-013, Components used for Gas Appliances and Equipment. It was approved on behalf of the Council of Standards Australia on 16 June 2008.
This Standard was published on 30 June 2008.

The following are represented on Committee AG-013:

- Appliance and Component Testing
- Association of Accredited Certification Bodies
- Energy Networks Association
- Engineers Australia
- Gas Appliance Manufacturers Association of Australia
- Gas Appliances and Services Association
- Gas Association of New Zealand
- Gas Technical Regulators Committee
- LP Gas Association of New Zealand
- LP Gas Australia

This Standard was issued in draft form for comment as DR 07300.

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.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard®

Jointing compounds and materials for use in gas pipe joints

Originated as AG 208—1975.
Previous edition AS 4623—2004.
Third edition 2008.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 8804 1

FOREWORD

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee AG-013, Components Used for Gas Appliances and Equipment, to supersede AS 4623—2004. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to retain this Standard as an Australian Standard rather than develop it as an Australian/New Zealand Standard.

The principal difference between this edition and AS 4623—2004 is a classification of jointing compounds and materials into three classes (previously unspecified). The methods of test have been revised accordingly.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with uniform minimum requirements for the safety, performance and use of electrical and electronic ignition devices for gas appliances.

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

In its preparation, consideration has been given to—

(a) continuity of satisfactory operation;

(b) the prevention of fire hazard, 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’ are used to define the application of annexes. A ‘normative’ annex is an integral part of a Standard, and an ‘informative’ annex 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.

CONTENTS

STANDARDS AUSTRALIA

Australian Standard

Jointing compounds and materials for use in gas pipe joints

SECTION 1 SCOPE AND GENERAL

1.1 Scope

This Standard specifies requirements applying to Class I, Class II and Class III jointing compounds and materials for use with thre

aded or flanged joints in pipes and fittings used in gas installations, including LP Gas in liquid phase, and appliances.

Compliance of a jointing compound or material with these requirements does not imply that it is acceptable for use without supplemental tests in its intended application.

Annexes B to I contain methods for testing compliance with particular requirements in this Standard. Annex A outlines testing requirements and preparation for particular methods of test in Annexes B to I.

1.2 Normative references

The following referenced documents are indispensable for the application of this document:

AS 1074, *Steel tubes and tubulars for ordinary service*

AS 2129, *Flanges for pipes, valves and fittings*

AS ISO 7.1, *Pipe threads where pressure-tight joints are made on the threads – Dimensions, tolerances and designation*

BS 1560-3-2, *Circular flanges for pipes, valves and fittings (Class designated). Steel, cast iron and copper alloy flanges, Part 3.2: Specification for cast iron flanges.*

EN 1759-1, *Flanges and their joints—Circular flanges for pipes, valves, fittings and accessories, Class designated,* Part 1: *Steel flanges, Nps 1/2 to 24*

1.3 Definitions

For the purpose of this Standard, the following definitions apply:

1.3.1 Gas

A combustible fuel gas that is any of the following:

1.3.1.1 Natural gas (NG)

A hydrocarbon gas, consisting mainly of methane.

1.3.1.2 Simulated natural gas (SNG)

A gas comprising a mixture of LP Gas and air, in the approximate proportions of 55% gas and 45% air for commercial propane.