

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.

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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
-

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 4623—2008

Jointing compounds and materials for use in gas pipe joints

RECONFIRMATION NOTICE

Technical Committee AG-013 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Gas Technical Regulators Committee
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NOTES

Australian Standard[®]

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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

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	4
1.1 Scope.....	4
1.2 Normative references	4
1.3 Definitions	4
1.4 Classification.....	5
SECTION 2 DESIGN AND CONSTRUCTION	6
2.1 Materials	6
2.2 Markings	6
2.3 Instructions	6
SECTION 3 PERFORMANCE REQUIREMENTS	8
3.1 Keeping properties	8
3.2 Resistance to corrosion	8
3.3 Resistance to leakage	8
3.4 Resistance to water.....	8
3.5 Resistance to temperature	8
3.6 Resistance to vibration	9
3.7 Consistency	9
3.8 Resistance to drying.....	9
3.9 Strength	9
Annex A Testing requirements and preparation	10
Annex B Method of test – Resistance to condensates—All classes.....	12
Annex C Method of test – Resistance to condensates—Class III	13
Annex D Method of test – Resistance to corrosion	14
Annex E Method of test – Resistance to leakage	16
Annex F Method of test – Resistance to water	17
Annex G Method of test – Resistance to temperature	18
Annex H Method of test – Resistance to vibration	19
Annex I Method of test – Resistance to drying	21

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 three

added 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.

1.3.1.3 Town gas (TG)

A gas manufactured from coal or petroleum feedstocks.

1.3.1.4 Tempered liquefied petroleum gas (TLP)

A gas comprising a mixture of LP Gas and air, in the approximate proportions of 27% gas and 73% air for commercial propane.

1.3.1.5 Liquefied petroleum gas (LP Gas)

A gas composed predominantly of any of the following hydrocarbons, or any combination of them in the vapour phase: propane, propene (propylene), butane, butene (butylene).

1.3.2 Jointing compound

A manufactured liquid, paste-like or semi-solid material, used to seal joints.

1.3.3 Jointing material

A manufactured solid material that may be in tape, cord or sheet form, used to seal joints.

1.3.4 Rated working pressure

The maximum operating pressure for the class of jointing compounds and materials as specified in Table 1.1.

1.4 Classification

There are three classes of jointing compounds as defined in Table 1.1. A compound specified as suitable for a particular class shall be suitable also for all lower classes, e.g. a Class III compound is suitable for Classes I, II and III.

Table 1.1—Classification of jointing compounds and materials

Class	Rated working pressure kPa	Typical application
I	20	Gas appliances
II	500	Gas installations (not including LP Gas in liquid form)
III	2000	LP Gas storage