

Australian Standard™

**Jointing compounds and materials for  
use in gas pipe joints**

This Australian Standard was prepared by Committee AG-011, Gas Components and Industrial Equipment. It was approved on behalf of the Council of Standards Australia on 8 October 2004.

This Standard was published on 24 November 2004.

---

The following are represented on Committee AG-011:

AGA (Network Operators)  
AGA Certification Services  
Appliance and Component Testing  
Australian Liquefied Petroleum Gas Association  
Gas Appliance Manufacturers Association of Australia  
Gas Appliances and Services Association  
Gas Technical Regulators Committee  
Institution of Engineers Australia  
Major Industrial Gas Installations

---

### **Keeping Standards up-to-date**

Standards are living documents which 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 Standards may also be withdrawn.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 which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at [www.standards.com.au](http://www.standards.com.au) and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.org.au](mailto:mail@standards.org.au), or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

Australian Standard™

**Jointing compounds and materials for  
use in gas pipe joints**

Originated as AG 208—1975.  
Previous edition 1998.  
Republished and designated AS 4623—2004.

**COPYRIGHT**

© Standards Australia International

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia International Ltd GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 6364 2

## PREFACE

This Standard was reviewed by the Standards Australia Committee, AG-011, Gas Components and Industrial Equipment, to supersede AG 208—1998, *Approval requirements for jointing compounds and materials for use in gas pipe joints*. The Standard is republished without technical alterations.

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 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;
- (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.

## CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND DEFINITIONS	
1.1 SCOPE .....	4
1.2 DEFINITIONS .....	4
SECTION 2 DESIGN AND CONSTRUCTION	
2.1 MATERIALS .....	6
2.2 MARKINGS .....	6
2.3 INSTRUCTIONS .....	6
SECTION 3 PERFORMANCE REQUIREMENTS	
3.1 KEEPING PROPERTIES .....	7
3.2 RESISTANCE TO CORROSION .....	7
3.3 RESISTANCE TO LEAKAGE.....	7
3.4 RESISTANCE TO WATER .....	7
3.5 RESISTANCE TO TEMPERATURE.....	7
3.6 RESISTANCE TO VIBRATION.....	7
3.7 CONSISTENCY .....	7
3.8 RESISTANCE TO DRYING .....	8
3.9 STRENGTH .....	8
APPENDICES	
A FIGURES .....	9
B TESTING REQUIREMENTS AND PREPARATION .....	10
C METHODS OF TEST.....	12
D LIST OF REFERENCED DOCUMENTS .....	21

## STANDARDS AUSTRALIA

**Australian Standard****Jointing compounds and materials for use in gas pipe joints**

## SECTION 1 SCOPE AND DEFINITIONS

**1.1 SCOPE**

These requirements apply to jointing compounds and materials for use with threaded or flanged joints in pipes and fittings used in gas installations, including LPG 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.

**1.2 DEFINITIONS**

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

**1.2.1 Authority**

Means the authority having jurisdiction or such authority as delegated. (Technical Regulator).

**1.2.2 Certified**

Assessed by a certifying body, and having a certificate number to demonstrate compliance with a Standard.

**1.2.3 Certifying body**

A body acceptable to the Technical Regulator that provides assurance of compliance of appliances and components with nominated standards or other accepted safety criteria.

**1.2.4 Gas**

A combustible fuel gas which may be one of the following:

**1.2.4.1 Natural gas (NG)**

A hydrocarbon gas, consisting mainly of methane.

**1.2.4.2 Simulated natural gas (SNG)**

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

**1.2.4.3 Town gas (TG)**

A gas manufactured from coal or petroleum feedstocks.

**1.2.4.4 Tempered liquefied petroleum gas (TLP)**

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

**1.2.4.5 Liquefied petroleum gas (LPG)**

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).