

Australian Standard™

**Welding, brazing and cutting of metals—  
Glossary of terms**

This Australian Standard was prepared by Committee WD-001, Welding Definitions and Symbols. It was approved on behalf of the Council of Standards Australia on 8 November 2005.

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The following are represented on Committee WD-001:

Australian Industry Group  
Bureau of Steel Manufacturers of Australia  
New Zealand Heavy Engineering Research Association  
Welding Technology Institute of Australia

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STANDARDS AUSTRALIA

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**RECONFIRMATION**

**OF**

**AS 2812—2005**

**Welding, brazing and cutting of metals—Glossary of terms**

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## NOTES

Australian Standard™

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## PREFACE

This Standard was prepared by the joint Standards Australia/Standards New Zealand Committee WD-001, Welding Definitions and Symbols, to supersede AS 2812—1985.

The objective of this Standard is to provide definitions of terms used in connection with welding, brazing, and cutting of metals to serve as a basis for securing uniformity in terminology in the welding industry, standard, and welding education throughout Australia. Process abbreviations that are commonly used in industry, e.g., MMAW, are included.

This edition includes the addition of some new terms. The additional terms are identified by an alphabetical letter after the number of the definition, e.g., 1.025(a).

Terms and definitions relating to processes have been grouped in a separate section. These terms are repeated in other section, as appropriate

The layout of the previous edition has been retained so that terms relating to various processes are listed and defined in individual sections. In addition, the terms in each section are arranged in a purely alphabetical sequence.

Figures illustrating more than one term or repeated terms are grouped in an appendix. Figures showing derivation of various processes are included.

In some cases, more than one term is listed. The first term (printed in bold type) should be regarded as the preferred term.

An alphabetical index of all defined terms is also included.

## CONTENTS

	<i>Page</i>
SECTION 1 DEFINITIONS OF PROCESSES .....	4
SECTION 2 GENERAL TERMS RELATING TO WELDING .....	16
SECTION 3 TERMS RELATING TO FUSION WELDING (WELDING WITHOUT PRESSURE)	
3.1 GENERAL TERMS RELATING TO FUSION WELDING .....	23
3.2 TERMS RELATING TO ARC WELDING .....	34
3.3 TERMS RELATING TO GAS WELDING .....	45
3.4 TERMS RELATING TO ELECTRON-BEAM AND LASER-BEAM WELDING ...	47
3.5 TERMS RELATING TO ELECTROSLAG AND ELECTROGAS WELDING .....	50
3.6 TERMS RELATING TO ALUMINOTHERMIC WELDING .....	51
SECTION 4 TERMS RELATING TO WELDING WITH PRESSURE	
4.1 GENERAL TERMS RELATING TO WELDING WITH PRESSURE .....	52
4.2 TERMS RELATING TO RESISTANCE WELDING .....	53
4.3 TERMS RELATING TO FORGE WELDING .....	68
4.4 TERMS RELATING TO PRESSURE WELDING .....	69
4.5 TERMS RELATING TO STUD WELDING .....	70
4.6 TERMS RELATING TO ULTRASONIC WELDING .....	70
4.7 TERMS RELATING TO FRICTION WELDING .....	70
4.8 TERMS RELATING TO DIFFUSION WELDING .....	71
4.9 TERMS RELATING TO EXPLOSIVE WELDING .....	71
SECTION 5 WELDING, BRAZING AND SOLDERING	
5.1 GENERAL TERMS RELATING TO BRAZE WELDING, BRAZING AND SOLDERING .....	73
5.2 TERMS RELATING TO BRAZE WELDING AND BRAZING .....	74
5.3 TERMS RELATING TO SOLDERING .....	74
SECTION 6 TERMS RELATING TO THERMAL SPRAYING .....	76
SECTION 7 TERMS RELATING TO THERMAL CUTTING	
7.1 GENERAL TERMS RELATING TO THERMAL CUTTING .....	77
7.2 TERMS RELATING TO OXYGEN-CUTTING .....	78
7.3 TERMS RELATING TO PLASMA CUTTING .....	80
7.4 TERMS RELATING TO ARC CUTTING .....	81
7.5 TERMS RELATING TO SPARK-EROSION CUTTING .....	81
7.6 TERMS RELATING TO ELECTRON-BEAM AND LASER-BEAM CUTTING ....	82
SECTION 8 IMPERFECTIONS .....	83
SECTION 9 TERMS RELATING TO DESTRUCTIVE TESTING .....	95
SECTION 10 TERMS RELATING TO HEALTH AND SAFETY .....	101
APPENDIX A GENERAL ILLUSTRATIONS .....	104
INDEX .....	122

## STANDARDS AUSTRALIA

## Australian Standard

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## SECTION 1 DEFINITIONS OF PROCESSES

No.	Term	Definition
1.001	<b>air-arc cutting</b>	Thermal cutting using an arc for melting the metal and a stream of air to remove the molten metal to enable a cut to be made.
1.002	<b>air-arc gouging</b>	The formation of a groove by means of air-arc cutting.
1.003	<b>aluminothermic welding</b>	A welding process in which an aluminothermic reaction takes place within a crucible and the resultant molten metal and aluminium oxide slag flows into a weld joint contained by a mould (see Figure 1.1).

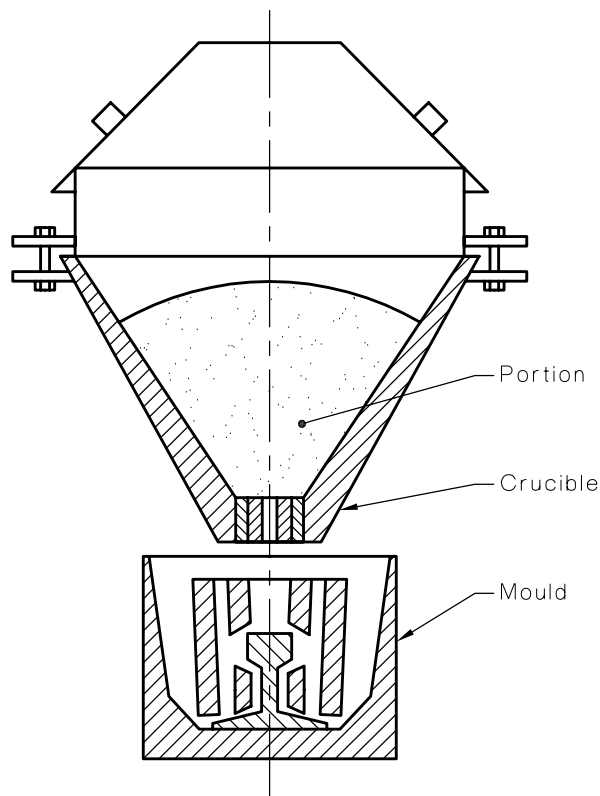


FIGURE 1.1 ALUMINOTHERMIC WELDING

1.004	<b>arc braze welding</b>	A braze welding process in which the heat required is obtained from an electric arc.
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