

Australian Standard™

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

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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

RECONFIRMATION

OF

AS 2812—2005

Welding, brazing and cutting of metals—Glossary of terms

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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. The same 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.

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SECTION 1 DEFINITIONS OF PROCESSES

No.	Term	Definition
1.001	air-arc cutting	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	air-arc gouging	The formation of a groove by means of air-arc cutting.
1.003	aluminothermic welding	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).

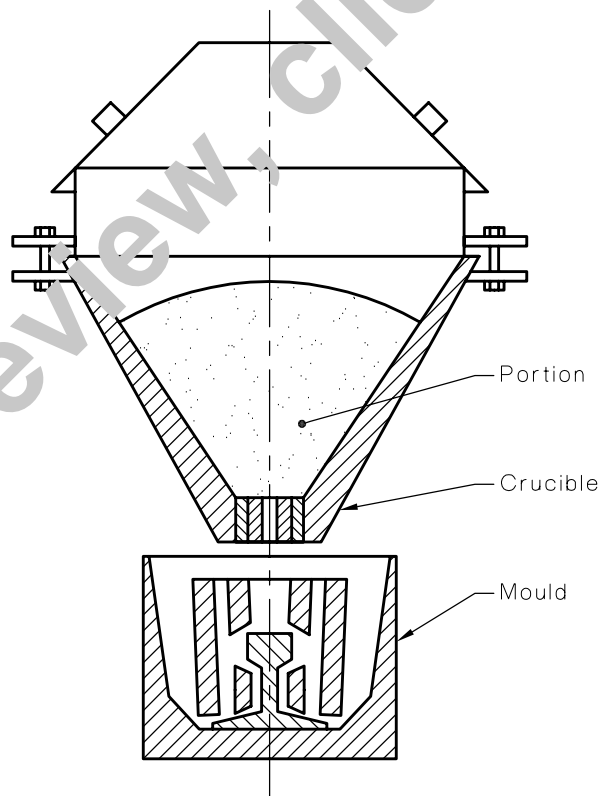


FIGURE 1.1 ALUMINOTHERMIC WELDING

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