

Australian/New Zealand Standard™

**Approval and test specification—  
Portable machines for electric arc  
welding and allied processes**

## **AS/NZS 3195:2002**

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/2 - Safety of household and similar electrical appliances and small power transformers and EL/19, Electric Welding Plant. It was approved on behalf of the Council of Standards Australia on 21 May 2001 and by the Council of Standards New Zealand on 12 May 2001. It was published on 13 May 2002.

The following interests are represented on Committee EL/2 and EL/19

Association of Certification Bodies  
Australian Chamber of Commerce and Industry  
Australian Electrical and Electronic Manufacturers Association  
Canterbury Manufacturers Association New Zealand  
Consumer Electronic Suppliers Association, Australia  
Electrical regulatory authorities, Australia  
Electrical test laboratories  
Electrical consultants  
Electricity Supply Association of Australia  
Institution of Engineers Australia  
Metal Trades Industries Association of Australia  
Ministry of Consumer Affairs, New Zealand

Additional interests participating in preparation of this Standard:

Welding Technology Institute of Australia

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## PREFACE

This standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers, and Standards Australia's Committee EL/19 on Electric Welding Plant to supersede AS 3195:1995 on publication.

This Standard is one of a series of Approval and Test Specifications issued by Standards Australia and Standards New Zealand. These Standards are to be read in conjunction with AS/NZS 3100, *Approval and test specification—General requirements for electrical equipment*. The objective of this Standard is to outline the conditions that must be met to secure approval for the sale and use of electrical equipment. Only safety matters and related conditions are covered.

This Standard was revised to incorporate Amendment No's. 1 to 5 to AS/NZS 3195:1995, to up-date the list of referenced documents and to effect changes to Clause 5 to correctly reference the AS/NZS 61558 series of standards.

## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

### Australia/New Zealand Standard

#### Approval and test specification – Portable machines for electric arc welding and allied processes

## 1 SCOPE

This Standard applies to single operator, portable machines for electric arc welding and allied processes which are designed for operation at low voltage, are intended for connection to the supply by flexible cord and plug, and which, when tested to Clause 18.11, have a rated input not exceeding 3.6 kVA.

For the purpose of this Standard a portable machine for electric arc welding and allied processes is called a machine.

## 2 APPLICATION

### 2.1 General requirements of AS/NZS 3100

This Standard shall be read in conjunction with AS/NZS 3100, and the appropriate provisions of AS/NZS 3100 shall apply to the construction of the machine and the insulation and safeguarding of parts which normally carry current.

### 2.2 Specific requirements of this Standard

A machine shall be deemed to comply with this Standard only if it complies with all the appropriate requirements of this Standard and passes the relevant tests specified herein.

### 2.3 Requirements of other Standards

Equipment and components incorporated in a machine upon which safety depends shall comply with the appropriate requirements of any relevant Approval and Test Specification unless such requirements are varied herein.