

Australian Standard[®]

**Hose and hose assemblies for
welding, cutting and allied
processes**

This Australian Standard was prepared by Committee RU/1, Industrial Hoses. It was approved on behalf of the Council of Standards Australia on 19 January 1995 and published on 5 May 1995.

The following interests are represented on Committee RU/1:

Australian Chamber of Commerce and Industry
Australian Gas Association
Australian Institute of Petroleum
Department of Mineral Resources, N.S.W.
Gas Association of New Zealand
Industrial Research Ltd, N.Z.
Metal Trades Industry Association of Australia
Plastics and Chemicals Industry
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PREFACE

This Standard was prepared by the Standards Australia Committee on Industrial Hose, under the direction of the Multitechnics Standards Policy Board, to supersede AS 1335—1974, *Hose and hose assemblies for general purpose gas welding and allied processes*.

The objective of this Standard is to ensure the safety of personnel when using hose and hose assemblies in the welding and cutting industries.

This Standard differs from the 1974 edition in the following respects:

- (a) A minimum, rather than a maximum, working pressure of 1.2 MPa is specified.
- (b) Minimum dynamic bend radius values have been included.
- (c) Requirements for ignitability and flame propagation characteristics of the hose have been included.
- (d) Requirements for ozone resistance have been included.
- (e) Requirements for hose and fitting compatibility have been clarified.
- (f) Requirements for twin hose have been included.
- (g) The colour of hose covers for oxygen has been designated blue, and that for air, nitrogen, carbon dioxide and argon has been designated black, in keeping with the International scene. However, this colour coding is in conflict with that specified in AS 4267—1995, *Pressure regulators for use with industrial compressed gas cylinders*, which specifies black for oxygen and blue for non-combustible gases.

The Standard differs from ISO 3821, *Welding—Rubber hoses for welding cutting and allied processes*, in the following areas:

- (a) Requirements for minimum dynamic bend radius of hose and for hose and fitting compatibility are included.
- (b) The value for tensile strength and elongation at break, after accelerated ageing for 96 h, is specified as not more than ± 35 percent from the corresponding unaged values for both lining and cover.
- (c) The marking requirements are different.
- (d) This Standard specifies a minimum rated working pressure of 1.2 MPa whereas ISO 3821 recognizes two types of hose with different minimum rated working pressures up to 2 MPa.

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.

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