

Australian Standard™

**Gas cylinders for industrial, scientific,
medical and refrigerant use—Labelling
and colour coding**

This Australian Standard was prepared by Committee ME-002, Gas Cylinders. It was approved on behalf of the Council of Standards Australia on 11 June 2004. This Standard was published on 13 August 2004.

The following are represented on Committee ME-002:

Air Conditioning and Refrigeration Wholesalers Association
Australasian Institute of Engineer Surveyors
Australian Chamber of Commerce and Industry
The Australian Gas Association
Australian Liquefied Petroleum Gas Association
Certification Bodies (Australia)
Department for Administrative and Information Services, S.A.
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and colour coding**

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PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee ME-002, Gas Cylinders to supersede AS 4484—1997, *Industrial, medical and refrigerant compressed gas cylinder identification*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

This revision incorporates revised colour coding requirements for medical gas cylinders, generally in accordance with ISO 32:1977, *Gas cylinders for medical use—Marking for identification of content*. This provides a means to identify certain medical gas cylinders by shoulder colour only.

This Standard references the Australian Code for the Transport of Dangerous Goods By Road and Rail (ADG Code) and the Standard for the Uniform Scheduling of Drugs and Poisons [Therapeutic Goods Administration (TGA)] to enable the labelling requirements of various authorities to be met.

This Standard specifies the legible identification of the cylinder with the name or abbreviated symbol or, where applicable, the refrigerant number of the contained gas and specified colours for the external cylinder surfaces.

The refrigerant numbers specified in this Standard are identical with those given in ISO 817:1974, *Organic refrigerants—Number designation*.

Certain gases have both refrigerant and industrial applications, e.g. ammonia, carbon dioxide, sulphur dioxide (R764), and may be listed in Table 1 or Table 4, or both. The allocation of identification colours then depends on the application for which the gas is intended.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

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STANDARDS AUSTRALIA**Australian Standard****Gas cylinders for industrial, scientific, medical and refrigerant use—
Labelling and colour coding****1 SCOPE**

This Standard specifies the requirements for labelling and colour coding to identify the contents of compressed gas cylinders for industrial, scientific, medical and refrigerant gases, which are used in accordance with AS 2030, Parts 1 and 2.

Colour coding includes special identification for eductor tubes to indicate liquid withdrawal.

This Standard applies to gas cylinders of water capacity in the range 0.1 kg to 150 kg. Cylinders above this size may follow this Standard.

This Standard does not apply to cylinders used for self contained underwater breathing apparatus (SCUBA), self contained breathing apparatus (SCBA), or fire extinguishing agents and portable fire extinguishers. For identification of these cylinders reference should be made to the relevant product or application Standard.

Gases intended for non-medical breathing purposes may use the same colours as medical gas cylinders.

The colour coding requirements of this Standard do not apply to liquid petroleum gas (LP Gas) cylinders in a cylinder of 12 kg water capacity or less, which are usually considered for domestic use and are finished in a range of colours.

The colour coding requirements of this Standard do not apply to cylinders which are either imported for use but not refilling in Australia (colours of country of origin are applicable), nor for cylinders which are imported for the specific purpose of filling for export.

2 REFERENCED DOCUMENTS**AS**

2030 The verification, filling, inspection, testing and maintenance of cylinders for the storage and transport of compressed gases

2030.1 Part 1: Cylinders for compressed gases other than acetylene

2030.2 Part 2: Cylinders for dissolved acetylene

2473 Valves for compressed gas cylinders

2473.3 Part 3: Outlet connections for medical gases (including pin-indexed yoke connections)

2700 Colour Standards for general purposes

NOHSC

2012 National code of practice for labelling of workplace substances

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

Standard for the Uniform Scheduling of Drugs and Poisons, General requirements for labels for medicines, Order No. 69 (TGA document)

Pantone Matching System (PMS)