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Australian Standard 1842—1983

PORTABLE FIRE EXTINGUISHERS WATER (STORED PRESSURE) TYPE



STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter



This Australian standard was prepared by Committee FP/3, Fire Extinguishers. It was approved on behalf of the Council of the Standards Association of Australia on 22 February 1983 and published on 6 June 1983.

The following interests are represented on Committee FP/3:

Attorney—General's Department
Board of Fire Commissioners of New South Wales
Building Owners and Managers Association of Australia
Commonwealth Fire Board
Department of Consumer Affairs, N.S.W.
Department of Defence
Department of Industrial Relations, N.S.W.
Department of Transport and Construction
Fire Protection Industry Association of Australia
Insurance Council of Australia
Metropolitan Fire Brigades Board, Melbourne
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AUSTRALIAN STANDARD

PORTABLE FIRE EXTINGUISHERS WATER (STORED PRESSURE) TYPE

AS 1842—1983

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PREFACE

This edition of this standard was prepared by the Association's Committee on Fire Extinguishers to supersede AS 1842—1976. Formerly, this standard was published under the one cover with AS 1840, Water (Soda Acid) Type, which is now obsolescent, and AS 1841, Water (Gas Container) Type. A new edition of AS 1841 is being issued concurrently with this edition of AS 1842.

Among the changes in this edition are the deletion of reference to swaged construction, as this is an outmoded technique, the inclusion of a new performance requirement for extinguishers designed for intermittent use, a revised colour identification requirement which coincides with the revision of AS 1849—1976, Identification Colours for Portable Fire Extinguishers, an expanded list of relevant Australian standards in Appendix A and the consequent deletion of Appendix E of the previous edition. Other changes are of an editorial nature, including the updating of references to British standards in the appendices.

Some purchasers may require evidence from manufacturers or suppliers that their product complies with the provisions of the relevant standard. The 'AS' certification trademark of the Association (see Note to marking clause) on an extinguisher is an independent assurance of such compliance.

Other Australian standards dealing with portable fire extinguishers are—

AS 1844	Foam (Gas Container) Type
AS 1845	Foam (Stored Pressure) Type
AS 1846	Dry Chemical Type
AS 1847	Carbon Dioxide Type
AS 1848	Halogenated Hydrocarbon Type
AS 1850	Classification, Rating and Fire Testing
AS 1851	Maintenance of Fire Protection Equipment Part 1—Portable Fire Extinguishers
AS 2444	Selection and Location

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

PORTABLE FIRE EXTINGUISHERS—WATER (STORED PRESSURE) TYPE

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard specifies requirements for metal-bodied portable fire extinguishers of the water type in which the water is expelled by gas stored under pressure in the body of the extinguisher. It refers to materials, methods of manufacture and performance of the extinguisher.

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

- AS 1849 Identification Colours for Portable Fire Extinguishers
- AS 1850 Portable Fire Extinguishers—Classification, Rating and Fire Testing
- AS K185 Colours for Specific Purposes

Standards for materials and for welding or brazing methods are listed in Appendix A and in Appendices B and D, respectively.

1.3 DEFINITIONS. For the purpose of this standard the following definitions apply:

1.3.1 Portable fire extinguisher—a first-aid fire-fighting appliance which is designed to be carried and operated by hand and which in working order has a mass not greater than 23 kg.

NOTE: This limit of 23 kg may be reconsidered internationally and could be reduced to 20 kg.

1.3.2 Water (stored pressure) type portable fire extinguisher—portable fire extinguisher in which water is expelled by means of an inert gas or air stored with and/or dissolved in the water under pressure.

NOTE: The water (stored pressure) type portable fire extinguisher is generally referred to in this standard as 'an extinguisher' or 'the extinguisher'.