

Australian Standard<sup>®</sup>

**Gaseous fire-extinguishing systems—  
Physical properties and system design**

**Part 1: General requirements  
(ISO 14520-1:2006, MOD)**



This Australian Standard® was prepared by Committee FP-011, Special Hazard Fire Protection Systems. It was approved on behalf of the Council of Standards Australia on 9 September 2009.

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The following are represented on Committee FP-011:

- Australian Industry Group
  - Australian Museum
  - Commerce Queensland
  - CSIRO Manufacturing and Materials Technology
  - Department of Defence (Australia)
  - Engineers Australia
  - Fire Protection Association Australia
  - Institute of Security Executives
  - National Fire Industry Association
  - Society of Fire Protection Engineers Australasian Chapter
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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## PREFACE

This Standard was prepared by the Standards Australia Committee FP-011, Special Hazard Fire Protection Systems, to supersede, in part, AS 4214—2002, *Gaseous fire extinguishing systems*.

This Standard is an adoption with Australian modifications and has been reproduced from ISO 14520-1:2006, *Gaseous media fire-extinguishing systems—Physical properties and system design*, Part 1: *General requirements* (including Technical Corrigendum 1), and has been varied as indicated to take account of Australian conditions. The modifications are specified in Appendix ZZ. Additional requirements for marking and marine environment are specified in Annexes ZA, ZB. A procedure for a discharge test is given in Annex ZC. The variations are also indicated by bar lines set in the margin against the clause, table, figure or part thereof affected.

The objective of this Standard is to provide designers and installers with minimum requirements for the design, installation, testing and commissioning of gaseous fire extinguishing systems for structures, building and plant.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this International Standard’ should read ‘this Australian Standard’.
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The full suite of AS ISO 14520 Standards consists of the following parts:

### AS

14520	Gaseous fire extinguishing systems—Physical properties
14520.1	Part 1: General requirements
14520.2	Part 2: CF <sub>3</sub> I extinguishant
14520.5	Part 5: FK-5-1-12 extinguishant
14520.6	Part 6: HCFC Blend A extinguishant
14520.8	Part 8: HFC 125 extinguishant
14520.9:	Part 9: HFC 227ea extinguishant
14520.10:	Part 10: HFC 23 extinguishant
14520.11:	Part 11: HFC 236fa extinguishant
14520.12:	Part 12: IG-01 extinguishant
14520.13:	Part 13: IG-100 extinguishant
14520.14:	Part 14: IG-55 extinguishant
14520.15:	Part 15: IG-541 extinguishant

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix or annex to which they apply. A ‘normative’ appendix or annex is an integral part of a Standard, whereas an ‘informative’ appendix or annex is only for information and guidance.

*This Standard incorporates a Commentary on some clauses. The Commentary directly follows the relevant clause, is designated by ‘C’ preceding the clause number and is printed in italics in a panel. The Commentary is for information only and does not need to be followed for compliance with the Standard.*

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