



Gaseous fire-extinguishing systems



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The following are represented on Committee FP-011:

- Australasian Fire and Emergency Service Authorities Council
 - Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - CSIRO
 - Engineers Australia
 - Facility Management Association of Australia
 - Fire Protection Association Australia
 - National Fire Industry Association
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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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AS 4214:2018
(Incorporating Amendment No. 1)

Australian Standard[®]

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PREFACE

This Standard was prepared by the Standards Australia Committee FP-011, Special Hazard Fire Protection Systems, to supersede AS ISO 14520, Parts 1 to 15—2009, *Gaseous fire extinguishing systems*.

This Standard incorporates Amendment No. 1 (December 2019). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

This Standard is based on ISO 14520, series of Standards, *Gaseous media fire-extinguishing systems—Physical properties and system design*, Parts 1 to 15 (published in 2015 and 2016).

This Standard incorporates content with modification from the following ISO Standards in the parts of this Australian Standard as specified in the table below.

ISO Content	Location of modified ISO content
ISO 14520 (series) Gaseous fire-extinguishing systems— Physical properties and system design	AS 4214 Gaseous fire-extinguishing systems
Part 1: General requirements	Body
Part 2: CF3I extinguishant	Appendix D
Part 5: FK-5-1-12 extinguishant	Appendix E
Part 6: HCFC Blend A extinguishant	Appendix F
Part 8: HFC 125 extinguishant	Appendix G
Part 9: HFC 227ea extinguishant	Appendix H
Part 10: HFC 23 extinguishant	Appendix I
Part 11: HFC 236fa extinguishant	Appendix J
Part 12: IG-01 extinguishant	Appendix K
Part 13: IG-100 extinguishant	Appendix L
Part 14: IG-55 extinguishant	Appendix M
Part 15: IG-541 extinguishant	Appendix N

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With the exception of the marine systems as detailed in Appendix A, this Standard does not cover the requirements of CO₂ systems. The committee plans to transfer the requirements of CO₂ marine systems to AS 6183 as part of a future amendment.

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, buildings and plant.

The terms ‘normative’ and ‘informative’ are used in a Standard to define the application of the appendices or annexes 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 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 conformance with the Standard.

Statements expressed in mandatory terms in Notes to Tables and Figures are deemed to be requirements of this Standard.

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