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AS 4214.2—1995

Australian Standard®

Gaseous fire extinguishing systems

Part 2: Inergen (IG-541) total flooding systems

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This Australian Standard was prepared by Committee FP/11, Fire Extinguishing Systems. It was approved on behalf of the Council of Standards Australia on 12 December 1994 and published on 5 March 1995.

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Australian Chamber of Commerce and Industry

Australian Construction Services—
Department of the Arts and Administrative Services

Australian Fire Authorities Council

Australian Fire Protection Association

Commonwealth Fire Board

Department of Defence, Australia

Fire Protection Industry Association of Australia

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP/11 on Fire Extinguishing Systems,

This Standard is the result of a consensus among representatives on the Joint Committee to provide it as an Australian Standard.

In order to maintain a compatible format in each part of AS 4214, *Gaseous fire extinguishing systems*, the Section numbers have been maintained throughout the suite whether or not they are applicable to the particular Part.

The objective of this Standard is to provide to the users of Inergen systems with specific requirements for the control of fires of Clauses A, B or C and E type. It does not cover the design of explosion suppression systems.

It is essential that fire extinguishing equipment be carefully maintained to ensure instant readiness when required. The importance of maintenance cannot be too highly emphasised. The maintenance requirements for Inergen for fire protection equipment are detailed in another Standard.

Inergen containers, manufactured for use in Australia, are required to meet the design parameters as set out in AS 2030.1, The approval, filling, inspection, testing and maintenance of cylinders for the storage and transport of compressed gases (known as the *SAA Gas Cylinders Code*), Part 1: *Cylinders for compressed gases other than acetylene*.

Attention is drawn to AS 2030.1 as it requires cylinders to be designed for the pressure developed at 65°C. This is some 10°C higher than that nominated in overseas codes. Accordingly, this aspect should be kept in mind for any imported Inergen containers.

It is a basic assumption in all technical standards work that each Standard be used only by persons competent in the field of application with which it deals. This is of particular importance in fire protection work. Accordingly, it is emphasised that the design requirements in this Standard are to be interpreted only by trained and experienced designers.

This Standard does not include specific requirements for Inergen systems for marine or mobile applications. However, the method of calculation in this Standard may be of some assistance in the design of such systems.

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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