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

Part 2: CF_3I extinguishant

Systèmes d'extinction d'incendie utilisant des agents gazeux — Propriétés physiques et conception des systèmes —

Partie 2: Agent extincteur CF_3I

Reference number
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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 21, *Equipment for fire protection and fire fighting*, Subcommittee SC 8, *Gaseous media and firefighting systems using gas*.

This third edition cancels and replaces the second edition (ISO 14520-2:2006), which has been technically revised with the following changes:

— added Clause 7.

A list of all parts in the ISO 14520 series can be found on the ISO website.

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

Part 2: CF_3I extinguishant

1 Scope

This document contains specific requirements for gaseous fire-extinguishing systems, with respect to the CF_3I extinguishant. It includes details of physical properties, specification, usage and safety aspects.

This document covers systems operating at a nominal pressure of 25 bar. This does not preclude the use of other systems.

2 Normative reference

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 14520-1, *Gaseous fire-extinguishing systems — Physical properties and system design — Part 1: General requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14520-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

4 Characteristics and uses

4.1 General

Extinguishant CF_3I shall comply with the specification shown in Table 1.

CF_3I is a colourless, almost odourless, electrically non-conductive gas with a density approximately seven times that of air.

The physical properties are shown in Table 2.

CF_3I extinguishes fires mainly by chemical means, but also by some physical means.

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