BS EN 15004-2:2025

BSI Standards Publication

Fixed firefighting systems — Gas extinguishing systems

Part 2: Physical properties and system design of gas extinguishing systems for FK-5-1-12 extinguishant

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Full document details: BS EN 15004-2:2025

National foreword

This British Standard is the UK implementation of EN 15004-2:2025. It supersedes BS EN 15004-2:2020, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FSH/18/6, Gaseous Extinguishing Media and Systems.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2025

ISBN 978 0 539 33033 5

ICS 13.220.20

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2025.

Amendments/corrigenda issued since publication

Date	Text affected

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15004-2

September 2025

ICS 13.220.20

Supersedes EN 15004-2:2020

English Version

Fixed firefighting systems - Gas extinguishing systems - Part 2: Physical properties and system design of gas extinguishing systems for FK-5-1-12 extinguishant (ISO 14520-5:2024, modified)

Installations fixes de lutte contre l'incendie - Installations d'extinction à gaz - Partie 2 : Propriétés physiques et conception des systèmes d'extinction à gaz pour agent extincteur FK-5-1-12 (ISO 14520-5:2024, modifiée)

Ortsfeste Brandbekämpfungsanlagen - Löschanlagen mit gasförmigen Löschmitteln - Teil 2: Physikalische Eigenschaften und Anlagenauslegung für Feuerlöschmittel FK-5-1-12 (ISO 14520-5:2024, modifiziert)

This European Standard was approved by CEN on 20 June 2025.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European foreword

This document (EN 15004-2:2025) has been prepared by Technical Committee CEN/TC 191 "Fixed firefighting systems", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15004-2:2020.

EN 15004-2:2025 includes the following significant technical changes with respect to EN 15004-2:2020:

— new specifications for dimers have been added to Table 1;

— Scope: Nominal pressure level 70 bar and 50 bar was added;

— 6.1, Fill density: 70 bar storage containers were added.

The text of the International Standard ISO 14520-5:2024 from Technical Committee ISO/TC 21 "Equipment for fire protection and firefighting" of the International Organization for Standardization (ISO) has been taken over as a European Standard by Technical Committee CEN/TC 191 "Fixed firefighting systems", the secretariat of which is held by BSI, with common modifications which are indicated by a straight line in the margin of the text.

EN 15004 will consist of the following parts, under the general title *Fixed firefighting systems — Gas extinguishing systems:*

— Part 1: *Design, installation and maintenance;*

— Part 2: *Physical properties and system design of gas extinguishing systems for FK-5-1-12 extinguishant;*

— Part 4: *Physical properties and system design of gas extinguishing systems for HFC 125 extinguishant;*

— Part 5: *Physical properties and system design of gas extinguishing systems for HFC 227ea extinguishant;*

— Part 6: *Physical properties and system design of gas extinguishing systems for HFC 23 extinguishant;*

— Part 7: *Physical properties and system design of gas extinguishing systems for IG-01 extinguishant;*

— Part 8: *Physical properties and system design of gas extinguishing systems for IG-100 extinguishant;*

— Part 9: *Physical properties and system design of gas extinguishing systems for IG-55 extinguishant;*

— Part 10: *Physical properties and system design of gas extinguishing systems for IG-541 extinguishant;*

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— Part 11: *Physical properties and systems design of gas extinguishing systems for Halocarbon Blend 55 extinguishant.*

The International Standards ISO 14520-2 and ISO 14520-11, which dealt with CF_3I and HFC 236fa extinguishants, respectively, have not been implemented by CEN, as CF_3I is only valid for local application and HFC 236fa extinguishant is only applicable for portable fire extinguishers and local application, respectively, which is not covered by the scope.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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