

STN	Stabilné hasiace zariadenia Plynové hasiace zariadenia Časť 6: Fyzikálne vlastnosti a návrh systému plynových hasiacich zariadení pre hasivo HFC 23 (mod ISO 14520-10: 2019)	STN EN 15004-6 92 0430
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Fixed firefighting systems - Gas extinguishing systems - Part 6: Physical properties and system design of gas extinguishing systems for HFC 23 extinguishant (ISO 14520-10:2019, modified)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/21

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Oznámením tejto normy sa ruší
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EUROPEAN STANDARD

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NORME EUROPÉENNE

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Supersedes EN 15004-6:2008

English Version

**Fixed firefighting systems - Gas extinguishing systems -
Part 6: Physical properties and system design of gas
extinguishing systems for HFC 23 extinguishant (ISO
14520-10:2019, modified)**

Installations fixes de lutte contre l'incendie -
Installations d'extinction à gaz - Partie 6 : Propriétés
physiques et conception des systèmes pour agent
extincteur HFC 23 (ISO 14520-10:2019, modifiée)

Ortsfeste Brandbekämpfungsanlagen - Löschanlagen
mit gasförmigen Löschmitteln - Teil 6: Physikalische
Eigenschaften und Anlagenauslegung für
Feuerlöschmittel HFC 23 (ISO 14520-10:2019,
modifiziert)

This European Standard was approved by CEN on 17 August 2020.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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 COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 15004-6:2020 (E)

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European foreword

This document (EN 15004-6:2020) 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 April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

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 15004-6:2008.

The main changes in EN 15004-6:2020 compared to EN 15004-6:2008 are the following:

- European foreword: Part 3 was removed from the list;
- Foreword of ISO 14520-10 was removed;
- Scope: Nominal pressure level 70 bar was added;
- 6.1, Fill density: 70 bar storage container was added;
- 6.2, Superpressurization option 70 bar was added;
- 6.3, Temperature/pressure graph for HFC 23 superpressurized to 70 bar at 20 °C was added;
- 6.4, Other fill density and superpressurization levels: new sub-clause added;
- Clause 7, Environmental properties: new clause added.

The text of the International Standard ISO 14520-10:2019 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*;

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- 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.*

The International Standards ISO 14520-2 and ISO 14520-11, which dealt with CF₃I and HFC 236fa extinguishants, respectively, have not been implemented by CEN, as CF₃I 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.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document contains specific requirements for gaseous fire-extinguishing systems, with respect to the HFC 23 extinguishant. It includes details of physical properties, specification, usage and safety aspects and is applicable to systems operating at a nominal pressure of 41 bar without nitrogen superpressurization and 70 bar superpressurized with nitrogen.

2 Normative references

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.

EN 15004-1:2019, *Fixed firefighting systems — Gas extinguishing systems — Part 1: Design, installation and maintenance*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN