

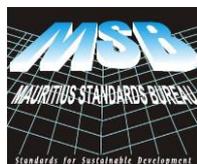
MAURITIAN
STANDARD

MS ISO
7165:2017

Second edition
2018-07-28

**Firefighting — Portable fire
extinguishers —
Performance and
construction**

ICS: 13.220.10



Mauritius Standards Bureau

Moka

National Foreword

This Mauritian Standard is identical with the International Standard **ISO 7165:2017: Firefighting — Portable fire extinguishers — Performance and construction**. It was adopted by the Mauritius Standards Bureau on the recommendation of the **Mechanical Engineering Standards Committee** through its **Subcommittee on Fire Extinguishers** and approved by the **Standards Council** on **29 June 2018**. It was notified in the **Government Gazette** on **28 July 2018***.

For the purpose of this standard the following changes should be made:

the 'decimal comma' should be replaced by 'decimal point'.

This second edition cancels and replaces the second edition (ISO 7165:2009), which has been technically revised.

The main changes compared to the previous edition are as follows:

- new requirements for four clean agents have been added;
- tests using polar solvents as a fuel for water-based fire extinguishers have been added.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, 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.

This document was prepared by Technical Committee ISO/TC 21, *Equipment for fire protection and fire fighting*, Subcommittee SC 2, *Manually transportable fire extinguishers*.

This third edition cancels and replaces the second edition (ISO 7165:2009), which has been technically revised.

The main changes compared to the previous edition are as follows:

- new requirements for four clean agents have been added;
- tests using polar solvents as a fuel for water-based fire extinguishers have been added.

Fire fighting — Portable fire extinguishers — Performance and construction

1 Scope

This document specifies the principal requirements intended to ensure the safety, reliability and performance of portable fire extinguishers.

It is applicable to a fully charged extinguisher having a maximum mass of 20 kg. Subject to local acceptance, application can be extended to extinguishers having a total mass of up to 25 kg when fully charged.

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.

ISO 4892-2:2013, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps*

ISO 5923, *Equipment for fire protection and fire fighting — Fire extinguishing media — Carbon dioxide*

ISO 7202, *Fire protection — Fire extinguishing media — Powder*

ISO 7203 (all parts), *Fire extinguishing media — Foam concentrates*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ISO 10619-2:2011, *Rubber and plastics hoses and tubing — Measurement of flexibility and stiffness — Part 2: Bending tests at sub-ambient temperatures*

ISO 11601, *Fire fighting — Wheeled fire extinguishers — Performance and construction*

ISO 13061-1, *Physical and mechanical properties of wood — Test methods for small clear wood specimens — Part 1: Determination of moisture content for physical and mechanical tests*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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>

3.1

batch

group of the same products made on the same production line using the same lot of materials during one production shift

3.2

bulk range

range of the extinguisher when 50 % of its media has been expelled