

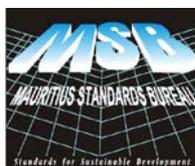
**MAURITIAN
STANDARD**

**MS ISO TR
21808:2021**

Second edition
2023-04-21

**Guidance on the selection, use, care
and maintenance of personal
protective equipment (PPE) designed
to provide protection for firefighters**

ICS 13.340.10



**Mauritius Standards Bureau
Moka**

National foreword

This Mauritian Standard is identical with the International Standard **ISO TR 21808:2021**, *Guidance on the selection, use, care and maintenance of personal protective equipment (PPE) designed to provide protection for firefighters*. It was adopted by the Mauritius Standards Bureau on the recommendation of the **Personal Protective Equipment Standards Committee**. The standard was approved by the **Standards Council** on 31 March 2023 and notified in the Government Gazette on **21 April 2023***.

This second edition cancels and replaces the first edition (**MS ISO/TR 21808:2009**), which has been technically revised and completely rewritten.

***General notice No. 529 of 2023**



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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 are 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 of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 94, *Personal safety — Protective equipment*, Subcommittee SC 14, *Firefighters personal equipment*.

This second edition cancels and replaces the first edition (ISO/TR 21808:2009), which has been technically revised and completely rewritten.

Introduction

The information in this document has been produced to assist firefighters, fire services and purchasers (or the person who advises the employer) in making the necessary decisions regarding the selection, use, care and maintenance of PPE for firefighters.

The purpose of this document is to establish a guidance document for PPE with the goal to evaluate and reduce the hazards and potential health risks associated with firefighting. This selection use, care and maintenance guideline provides basic answers, criteria, and options for the fire service personnel that are selecting or using PPE through its life cycle with respect to protection it provides related to heat and flame or damaged PPE.

The main topics that the fire service needs to consider are highlighted in this document. This guidance document goes through the various steps and considerations such as risk assessment, compatibility, testing, cleaning, information to be provided with the PPE so that the right management choices can be made for each fire service. Many paragraphs of the document contain bullet-lists as thought provokers or options that may need to be considered. The annexes provide additional information that if included, would make the main body of this document too complicated to read, but are necessary to describe hazards and risks, the value of the test methods for the end user, for example [Annex E](#) "Description of burn injury risks" and [Annex F](#) "Guidance on some of the items that may be addressed in labelling, subject to the required use of the PPE" provide importance guidance information.

The selection of appropriate PPE for heat and flame are based on your own risk assessment and not be copied from other procurement documents.

The compatibility in this document focused mainly on the physical compatibility between each element of PPE and the documentation.

This document is not intended for cleaning, inspection or repair of firefighter PPE. Use ISO 23616¹⁾ for cleaning, inspection and repair of firefighters personal protective equipment (PPE).

Currently, TC 94/WG1 works to establish a parent standard for the development of this document. In case of the parent standard publication, the consistency of this document is to be considered.

1) Under preparation. Stage at the time of publication ISO/DIS 23616:2021.

Guidance on the selection, use, care and maintenance of personal protective equipment (PPE) designed to provide protection for firefighters

1 Scope

This document sets out guidance for the selection, use, care and maintenance of PPE designed to provide protection for firefighters while carrying out their duties.

The PPE covered in this document is intended for firefighting personnel exposed to risks associated with but not necessarily limited to the following activities:

- structural firefighting;
- wildland firefighting;
- incidents involving hazardous materials;
- incidents involving motor vehicle;
- urban search and rescue.

The purpose of this document is to highlight the main areas that a Fire service needs to consider when providing PPE to its members. This document is a supplement to the information provided in the PPE standards or used in conjunction with them. Most paragraphs of the document contain bulletlists, these lists are provided for guidance only and they are not exhaustive.

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/TR 19591, *Personal protective equipment for firefighters — Standard terms and definitions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 19591 and the following apply.

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

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

base-layer garment

the first layer of a textile structure that is in direct contact with the skin (i.e. briefs, t-shirts, bras, socks)

3.2

care

processes and procedures for cleaning, decontamination, and storage of protective clothing and equipment

[SOURCE: ISO/TR 19591:2018, 3.30]