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STANDARD

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**Respiratory protective
devices — Selection, use
and maintenance — Part 3:
Fit testing procedures**

ICS 13.340.30



Mauritius Standards Bureau

Moka

National Foreword

This Mauritian Standard is identical with the International Standard **ISO 16975-3:2017**, *Respiratory protective devices — Selection, use and maintenance — Part 3: Fit testing procedures*. It was adopted by the Mauritius Standards Bureau on the recommendation of the **Personal Protective Equipment Standards Committee** through its **Subcommittee on Personal Safety** 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'.

General notice no 1137 of 2018



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*Mauritius Standards Bureau
Villa Road
Moka
Mauritius*

*Telephone + (230) 433 3648
Fax + (230) 433 5051/ 433 5150
E-mail msb@intnet.mu*

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PREVIEW

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 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 15, *Respiratory protective devices*.

A list of all parts in the ISO 16975 series can be found on the ISO website.

Introduction

This document contains the essential requirements for establishing and implementing a fit-testing programme for tight-fitting respiratory protective devices (RPD) that meet the requirements of the performance standards. It provides requirements with regard to RPD fit-testing procedures in an effective RPD programme.

The RPD fit testing itself is simply one facet of fit-testing procedures. An effective RPD programme requires much more, including a competent fit-test operator to perform the fit test. This document provides guidance on what knowledge and skills are necessary in order to perform as a competent fit-test operator.

This document contains information to aid RPD programme administrators and competent fit-test operators in preparing to perform a proper fit test. This includes guidance regarding potential interference from other personal protective equipment with the RPD, detailed information on RPD used for fit testing, selection of RPD prior to fit testing, and other considerations that should be met if the fit test is to be effective.

The information contained in this document can be used to assist in the preparation of national or local regulations; however, this does not supersede national or local regulations.

PREVIEW

Respiratory protective devices — Selection, use and maintenance —

Part 3: Fit-testing procedures

1 Scope

This document specifies guidance on how to conduct fit testing of tight-fitting respiratory protective device (RPD) and on appropriate methods to be used. Fit testing is only one element of a complete RPD programme. The intention of fit testing is to evaluate the effectiveness of the seal between the wearer's face and the respiratory interface (RI). A complete RPD programme is defined in ISO/TS 16975-1.

This document specifies requirements for conducting RPD fit testing and includes

- qualifications/competences of fit-test operators,
- specific fit-testing procedures,
- interpretation of fit-test results, and
- record keeping.

A fit test is not required for escape-only RPD.

2 Normative references

There are no normative references in this document.

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

face-seal leakage

leakage between the wearer's face and the *respiratory interface* (3.11)

[SOURCE: ISO 16972:2010, 3.72, modified — “wearer's” has been added.]

3.2

fit test

use of a challenge agent and specific protocol to qualitatively or quantitatively determine the effectiveness of the seal between the wearer's face and *respiratory interface* (3.11) with a specific make, model, and size of an *RPD* (3.12)

[SOURCE: ISO 16972:2010, 3.76, modified — “the effectiveness of the seal between the wearer's face and respiratory interface” has been inserted.]