



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 16972:2020

# Respiratory protective devices - Vocabulary and graphical symbols(ISO 16972:2020)

**I.S. EN ISO 16972:2020**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

*NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.*

*This document is based on:*

EN ISO 16972:2020

*Published:*

2020-03-25

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2020-04-12

ICS number:

01.040.13

13.340.30

NOTE: If blank see CEN/CENELEC cover page

NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

## National Foreword

I.S. EN ISO 16972:2020 is the adopted Irish version of the European Document EN ISO 16972:2020, Respiratory protective devices - Vocabulary and graphical symbols(ISO 16972:2020)

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

**Compliance with this document does not of itself confer immunity from legal obligations.**

*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

This page is intentionally left blank

EUROPEAN STANDARD

EN ISO 16972

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2020

ICS 01.040.13; 13.340.30

English Version

## Respiratory protective devices - Vocabulary and graphical symbols(ISO 16972:2020)

Appareils de protection respiratoire - Vocabulaire et symboles graphiques (ISO 16972:2020)

Atemschutzgeräte - Begriffe und graphische Symbole (ISO 16972:2020)

This European Standard was approved by CEN on 23 February 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.

CEN members are the national standards bodies of 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 United Kingdom.



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 ISO 16972:2020 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

## **European foreword**

This document (EN ISO 16972:2020) has been prepared by Technical Committee ISO/TC 94 "Personal safety -- Personal protective equipment" in collaboration with Technical Committee CEN/TC 79 "Respiratory protective devices" the secretariat of which is held by DIN.

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 September 2020, and conflicting national standards shall be withdrawn at the latest by September 2020.

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 132:1998.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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.

## **Endorsement notice**

The text of ISO 16972:2020 has been approved by CEN as EN ISO 16972:2020 without any modification.

This page is intentionally left blank



# INTERNATIONAL STANDARD

**ISO  
16972**

Second edition  
2020-03

---

---

## **Respiratory protective devices — Vocabulary and graphical symbols**

*Appareils de protection respiratoire — Vocabulaire et symboles  
graphiques*



Reference number  
ISO 16972:2020(E)

© ISO 2020

**ISO 16972:2020(E)**



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2020

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

## **Contents**

Page

<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms related to respiratory protective devices</b> .....	<b>1</b>
<b>4 Terms related to human factors</b> .....	<b>25</b>
<b>5 Graphical symbols for use on respiratory protective devices</b> .....	<b>31</b>
<b>Bibliography</b> .....	<b>32</b>
<b>Index</b> .....	<b>33</b>

## ISO 16972:2020(E)

### 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](http://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](http://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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 94, *Personal safety — Personal protective equipment*, Subcommittee SC 15, *Respiratory protective devices*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 79, *Respiratory protective devices*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 16972:2010), which has been technically revised. The main changes compared with the previous edition are as follows:

- the terms used in the field of respiratory protective devices (RPD) have been updated;
- Clause 5, “Units of measurement”, has been deleted;
- Annex A, “Terms and definitions referring to respiratory protective devices in current national standards, regulations or other national contexts”, has been deleted;
- Annex B, “Abbreviations used”, has been deleted.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Respiratory protective devices — Vocabulary and graphical symbols

## 1 Scope

This document defines terms and specifies units of measurement for respiratory protective devices (RPDs), excluding diving apparatus. It indicates graphical symbols that can be required on RPDs, parts of RPD or instruction manuals in order to instruct the person(s) using the RPD as to its operation.

NOTE Terms and definitions for diving apparatus are given in EN 250.

## 2 Normative references

There are no normative references in this document.

## 3 Terms related to respiratory protective devices

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

#### **abrasive blasting respiratory protective device**

*breathing apparatus* (3.32) incorporating a protective *hood* (3.115) or a *blouse* (3.23) fitted with an *impact resistant* (3.119) *visor* (3.252)

Note 1 to entry: *Breathable air* (3.28) is supplied to the *wearer* (3.257) from a source of air not carried by the wearer.

### 3.2

#### **accessory**

item, or items, that are attached to the *respiratory protective device (RPD)* (3.203) that are not necessary for the RPD to meet the requirements of the RPD performance standard and do not compromise its protection

### 3.3

#### **adequacy assessment**

selection method identifying the *respiratory protective device* (3.203) is able to reduce the *wearer's* (3.257) inhalation exposure to acceptable levels

### 3.4

#### **adequate respiratory protective device**

##### **adequate RPD**

*RPD* (3.203) capable of reducing the inhalation exposure to an acceptable level

### 3.5

#### **aerodynamic diameter**

diameter of a unit density sphere having the same settling velocity as the *particle* (3.170) in question

### 3.6

#### **aerosol**

suspension of solid, liquid, or solid and liquid *particles* (3.170) in a gaseous medium, having a negligible falling velocity (generally considered to be less than 0,25 m/s)

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-