



**Respiratory protective devices—Terms,
definitions, graphical symbols and units
of measurement**

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 - Australian Industry Group
 - Australian Institute of Occupational Hygienists
 - Certification Interests, Australia
 - Composites Australia
 - Department of Defence (Australian Government)
 - Department of Trade and Investment, NSW
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This Standard was issued in draft form for comment as SRA 0/0/NZS ISO 16972:2015.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard[®]

**Respiratory protective devices—Terms,
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of measurement**

Originally as part of AS Z18—1963.
Previous edition part of AS/NZS 1716:2012.
Revised in part and redesignated as AS ISO 16972:2015.

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Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 125 0

PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee SF-010, Occupational Respiratory Protection, to supersede (in part) AS/NZS 1716:2012, *Respiratory protective devices*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide definitions and specify units of measurement and graphical symbols to be used throughout the series of standards related to respiratory protective devices.

This Standard is identical with, and has been reproduced from ISO 16972:2010, *Respiratory protective devices—Terms, definitions, graphical symbols and units of measurement*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) In the source text ‘this International Standard’ should read ‘this Australian Standard’.
- (b) A full point substitutes for a comma when referring to a decimal mark.

None of the normative references in the source document have been adopted as Australian or Australian/New Zealand Standards.

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

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Respiratory protective devices—Terms, definitions, graphical symbols and units of measurement

1 Scope

This International Standard is applicable to respiratory protective devices. It defines commonly used terms and specifies units of measurement to achieve a uniform interpretation and to prevent ambiguous use. It indicates graphical symbols that may be required to be placed on respiratory protective devices (RPD) or parts of RPD or instruction manuals, in order to instruct the person(s) using the RPD about its operation.

2 Normative references

The following referenced documents are indispensable for the application 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 7000:2004, *Graphical symbols for use on equipment — Index and synopsis*

IEC 80416-1¹⁾, *Basic principles for graphical symbols for use on equipment — Part 1: Creation of graphical symbols for registration*

ISO 80416-2²⁾, *Basic principles for graphical symbols for use on equipment — Part 2: Form and use of arrows*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE The terms are listed in alphabetical order. Terms which refer to current RPD are not listed in these definitions because they are design related and are described in Annex A. Bold type used within a definition identifies terms defined elsewhere in this list of preferred terms.

3.1

abrasion resistance

ability of an **RPD** and/or its components to withstand degradation from abrasive effects (e.g. scratch, scrape, scuff)

3.2

abrasive blasting respiratory protective device

device designed to protect the wearer from inhalation of, impact of, and abrasion by materials used or generated in abrasive blasting

3.3

accessory

item, or items, that are attached to the **RPD** that are not necessary for the RPD to meet the requirements of the ISO RPD performance standard and do not compromise its protection

3.4

adequacy assessment

selection method identifying **RPD** able to reduce the wearer's hazard exposure to acceptable levels

3.5

aerodynamic diameter

diameter of a unit density sphere having the same settling velocity as the particle in question

3.6

aerosol

suspension of solid, liquid or solid and liquid particles in a gaseous medium

3.7

aerosol penetration

ability of particles to pass through a particle filtering material

3.8

air flow resistance

pressure difference between upstream and downstream locations caused by the flow of air through parts and components of RPD such as, an exhalation valve, inhalation valve, filter(s), and tube, etc.

1) Cancels and replaces ISO 3461-1:1988.

2) Cancels and replaces ISO 4196:1984.