

AS/NZS 1716:2012

AS/NZS 1716:2012

Australian/New Zealand Standard™

Respiratory protective devices



AS/NZS 1716:2012

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-010, Occupational Respiratory Protection. It was approved on behalf of the Council of Standards Australia on 23 January 2012 and on behalf of the Council of Standards New Zealand on 24 January 2012.
This Standard was published on 13 February 2012.

The following are represented on Committee SF-010:

Accident Compensation Corporation, New Zealand
Association of Accredited Certification Bodies
Australasian Fire and Emergency Service Authorities Council
Australian Aluminium Council
Australian Chamber of Commerce and Industry
Australian Council of Trade Unions
Australian Industry Group
Australian Institute of Occupational Hygienists
Australian Institute of Petroleum
Australian Mines and Metals Association
Business New Zealand
Composites Australia
Department of Defence, Australia
Department of Labour New Zealand
Department of Primary Industries, NSW
Energy Networks Association, Australia
Hyperbaric Engineering Industry Forum
Independent Chairperson
NSW Department of Primary Industries
NSW Mines Rescue
Queensland Mines Rescue Brigade
Safety Institute of Australia
Sydney Water Corporation
TestSafe Australia
The University of New South Wales
United Firefighters Union of Australia
WorkCover New South Wales
WorkSafe Victoria

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.saiglobal.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR AS/NZS 1716.

AS/NZS 1716:2012

Australian/New Zealand Standard™

Respiratory protective devices

Originated in Australia as AS Z18—1963.
Originated in New Zealand as part of NZS 1568:1961.
Previous edition AS/NZS 1716:2003.
Seventh edition 2012.

COPYRIGHT

© Standards Australia Limited/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, Private Bag 2439, Wellington 6140.

ISBN 978 1 74342 024 9

PREFACE

This Standard was prepared by the Joint Australian/New Zealand Standards Committee SF-010, Occupational Respiratory Protection to supersede AS/NZS 1716:2003.

This Standard was revised with the objective of incorporating some improvements but keeping these to a minimum, in light of current work still under way by ISO (International Organization for Standardization) in the field of respiratory protective devices.

The changes that have been made are mostly editorial or to clarify and improve existing testing procedures for exhalation resistance as well as include specific requirements for full facepieces used in extreme environments by fire and emergency services (special use facepieces).

It is anticipated that a new series of ISO Standards will be published in the next few years that will incorporate major developments that will address most, if not all, concerns highlighted in the previous edition. When such ISO Standards are published, it is planned that they be adopted as the next revision of AS/NZS 1716.

Advice on the selection, use and maintenance of respiratory protective equipment is not covered by the Standard but given in AS/NZS 1715, *Selection, use and maintenance of respiratory protective equipment*.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	6
1.2 OBJECTIVE	6
1.3 APPLICATION	6
1.4 REFERENCED DOCUMENTS.....	6
1.5 DEFINITIONS.....	7
1.6 NOMINAL VALUES AND TOLERANCES.....	10
1.7 UNITS FOR GAS AND VAPOUR CONCENTRATIONS.....	10
1.8 APPLICATION OF DESIGN AND CONSTRUCTION REQUIREMENTS.....	11
SECTION 2 DESIGN AND CONSTRUCTION OF ASSEMBLED RESPIRATORS	
2.1 GENERAL REQUIREMENTS.....	12
2.2 FACIAL FIT	13
2.3 BREATHING AND CONNECTING TUBE.....	15
2.4 DEMAND VALVE.....	15
SECTION 3 FACEPIECES HEAD COVERINGS AND HARNESES	
3.1 DESIGN REQUIREMENTS.....	16
3.2 PERFORMANCE REQUIREMENTS	17
SECTION 4 PARTICULATE FILTER RESPIRATORS	
4.1 DESIGN AND CONSTRUCTION	20
4.2 CLASSIFICATION AND COMPONENTS.....	20
4.3 PERFORMANCE REQUIREMENTS	20
SECTION 5 GAS AND VAPOUR FILTER RESPIRATORS	
5.1 DESIGN AND CONSTRUCTION	22
5.2 TYPES OF FILTER.....	22
5.3 CLASSIFICATION AND COMPONENT PARTS.....	23
5.4 PERFORMANCE REQUIREMENTS	23
SECTION 6 POWERED AIR-PURIFYING RESPIRATORS	
6.1 DESIGN AND CONSTRUCTION	28
6.2 COMPONENTS	28
6.3 PERFORMANCE REQUIREMENTS	29
SECTION 7 ESCAPE RESPIRATORS—FILTRATION TYPE	
7.1 DESIGN AND CONSTRUCTION	31
7.2 CLASSIFICATION	31
7.3 FILTER SELF-RESCUER (MINES).....	31
7.4 SMOKE MASK	33
7.5 FILTER SELF-RESCUER (INDUSTRIAL).....	34
SECTION 8 AIR-HOSE AND AIR-LINE RESPIRATORS	
8.1 DESIGN AND CONSTRUCTION	36
8.2 WAIST BELT OR BODY HARNESS.....	38
8.3 AIR-HOSE AND AIR-LINE	38
8.4 PERFORMANCE REQUIREMENTS	39

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
-