

STANDARDS



Willson disposable respirators are designed for performance and comfort, reflecting the Bacou-Dalloz commitment to quality.

Design, manufacturing and test requirements are covered in AS/NZS 1716:2003. Bacou-Dalloz respiratory protective devices meet the stringent requirements of this standard. Please refer to approval details throughout the catalogue.

For selection, use and maintenance of respiratory devices please refer to AS/NZS 1716:2003. This standard sets out principles of respiratory protection and makes recommendations for the selection, use and maintenance of respirators.

IMPORTANT SAFETY CONSIDERATIONS

Harmful substances may be in the form of dusts, mists, fumes, gases and vapours, or combinations of these substances. There are many important factors to be considered before choosing which respirator is most suitable for an application:

1. Ensure there is sufficient oxygen present. Please refer to standards or regulations for concentration level details.
 2. Determine the physical and chemical properties of the contaminant, which can be ascertained from the most current Material Safety Data Sheet (MSDS) for the substance concerned, or from other appropriate reference material.
 3. Determine the concentration of the contaminant in your workplace environment. Lower capacity respirators are only designed to work in concentrations up to a certain level and you may need to use a different respirator depending on the concentration present.
 4. Assess the working conditions and respirator protection factor. P1 respirators are for protection against mechanically-generated particulates. P2 respirators are for protection against mechanically and thermally-generated particulates. Class P3 respirators are intended for use against all particulates including highly toxic materials.
- Other filter types or types of respirators are to be considered for protection from gases and vapours. The type of contaminant and concentration will determine which filter/respirator is required. You need to know the work place exposure standard for the contaminant, e.g. 'Worksafe Australia Exposure Standards for atmospheric contaminants in the occupational environment' or 'OSM Workplace Exposure Standards and Biological Exposure Indices for New Zealand'.
5. Select the right respirator / filter for the task, and ensure a proper face fit. Where concentrations permit, disposable respirators are a good solution and are more likely to be worn because of their greater comfort. If you use replaceable filter respirators, you must implement a respirator maintenance program in accordance with AS/NZS 1716:2003.
 6. Conduct training in the need for and correct use of respirators. Product training and motivation of users of personal equipment is vital to ensure the user's complete understanding of a respiratory protection program.

Disposable [Maintenance-Free] Respirators

A maintenance-free or disposable respirator is a breathing device designed to be discarded after use. There are no spare parts and therefore no maintenance is required.

There are two classes of particulate filters suitable for filtering finely divided solid or liquid particles, or both, from inhaled air with disposable respirators. These are classified in accordance with the tests in AS/NZS 1716:2003, as follows:

P1

P1 intended for use against mechanically generated particulates

P2

P2 intended for use against mechanically and thermally generated particulates

NEVER USE A DISPOSABLE RESPIRATOR WHEN:

- They are modified or damaged
- Contaminant concentration is immediately dangerous to life and health
- Contaminant is over 10 x TLV (Threshold Limit Value)
- Oxygen concentration is less than 17%
- Spray painting
- Fire fighting



The Willson range of maintenance free disposable respirators was developed in Europe in response to a revised Standard, EN 149:2001. This new EN standard has led to an improved Willson range of disposable respirators globally. Willson respirators protect the wearer against solid, water based and liquid aerosols.

Some highly unique features make the Willson maintenance free respirators some of the most comfortable on the market today. After all, the best-performing respirator in the world isn't effective if it's not worn due to comfort factors. Our goal is 100% wear time.



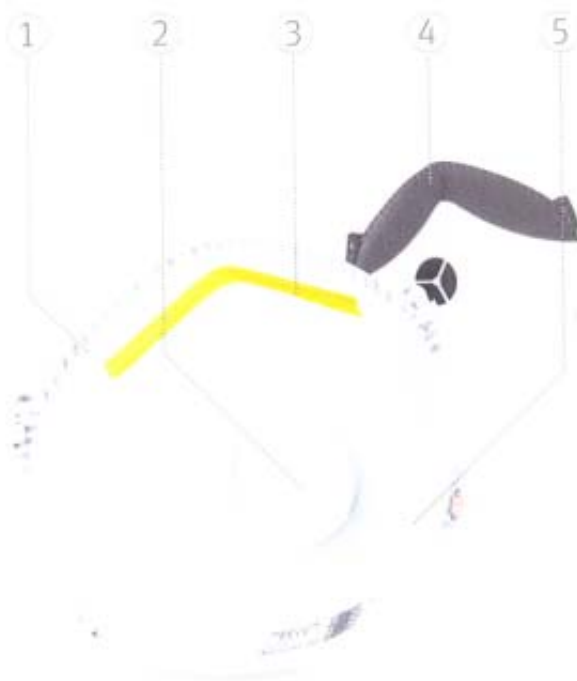
FITTING INSTRUCTIONS - CUP RESPIRATORS

1. Hold the respirator cup in your hand, allowing the head-straps to hang freely.
2. Hold the respirator under the chin with the nose-piece facing outwards. Place the respirator in position on your face ensuring that the lower part of the respirator is positioned under your chin. Pull the lower head-strap over your head and place it around the neck below the ears. Still holding the respirator against the face with one hand, pull the top head-strap over your head and position it above the ears, around the crown of the head. Respirators with adjustable head-straps only: adjust the tension by pulling the head-straps with both hands. (Tension may be decreased by pushing out on the back of the buckle).
3. Mold the nose area to the shape of the face, running the finger tips of both hands from the top of the nose-piece down both sides while pressing inward. Always use both hands.
4. Fit Check: Fit check the face seal as follows: Place both hands over the respirator. If the respirator is not fitted with an exhalation valve, exhale sharply; if the respirator is fitted with an exhalation valve, inhale sharply. If leaks around the edge are detected, re-adjust the head-straps and/or the nose-piece. Repeat the procedure until a satisfactory face fit has been achieved. **Important:** If you feel that the headbands are too loose, you can increase the tension by tying a small knot in the headband.

WARNING: In any circumstance, if you cannot achieve a satisfactory fit, do NOT enter the contaminated area.

Exclusive features of the Willson 4000 & 5000 Series

The Willson 4000 and 5000 series provides a low cost, high quality respiratory solution. Packed with innovative features and improved design, the new generation of no maintenance masks provides great protection at a competitive price.



1 INNOVATIVE FULLY FEATURED RESPIRATOR DESIGN

Willson no maintenance masks have been designed with an increased inner volume for a non-oppressive feeling on the face and ease of movement for speech. The respirator material can be easily molded to suit each individual's facial contours while ensuring a maximum respirator service life thanks to its hypoallergenic and humidity resistant properties.

2 IMPROVED EXHALATION VALVE

With an innovative design exclusive to Willson, the exhalation valve on the Willson 5000 Series provides minimal exhalation resistance while offering maximum frontal protection of the valve membrane. A faster evacuation of moist exhaled air means easier breathing. This encourages longer wear time through greater overall comfort, especially in hot or humid workplaces.

3 COLOUR CODING FOR QUICK IDENTIFICATION

The pre-formed and colour coded nose bridge gives at a glance protection identification. Yellow indicates the respirator is a P1 respirator, green for P2, brown for organic vapours and blue for acid gases and vapours.

4 ULTRA-SOFT SEAL

The Willtech® seal uses its triple layer technology to provide the ultimate in comfort and protection. It provides the wearer with a soft textile sensation on the skin while absorbing perspiration and ensuring an excellent seal for maximum protection.

Willson disposable respirators have three different types of seals for various protection and comfort levels.

Strip Nose Seal - Standard protection

Boomerang Nose Seal - Standard protection with added wearer comfort

Polo Face Seal - High level protection with increased wearer comfort

5 QUALITY MATERIALS PROTECT YOU AND THE ENVIRONMENT

Willson disposable respirators use premium quality materials designed to protect you and the environment. The flame retardant outer shell ensures greater safety. Masks with charcoal layers provide relief from nuisance levels of organic vapours and acid gases. The respirator strap staples do not penetrate the filter medium, ensuring the integrity of the filter for your safety.

The new Willson 5000 Series also eliminates three problem materials. Made without the use of latex, Willson has removed a common source of allergies. Ecologically friendly, the Willson 5000 Series is PVC free. And to ensure wider use in industry, the Willson respirators are also totally free of silicone.

FLAT-FOLD STYLE ADDS VERSATILITY

Optional individually wrapped flat-fold style available (4000 Series), for convenient and hygienic storage in a pocket. A fold-and-hold mechanism prevents contamination between uses and easy storage. The integrated chin piece design allows normal movement of speech and better fit and the sliding latex-free elastic ring head band allows more flexibility in adjusting the head bands and is highly resistant to breakage. Flatfold disposable respirators have no staples, making them ideal for use in the food industry.

DOLOMITE TESTED

All Willson 5000 Series respirators have undergone optional dolomite testing, clearly demonstrating the respirator's resistance to clogging over time. This ensures better breathing comfort and less worker fatigue.



FITTING INSTRUCTIONS - FOLDING RESPIRATORS

- 1 Open Flat Fold Respirator by pushing slightly on both sides.
- 2 Pre-form the nose-bridge.
- 3 Place the respirator under the chin with the chin-flap fully open. Holding the respirator against the face, place the lower head-strap around the neck below the ears and the top head-strap above the ears.
- 4 This is how the respirator should look when correctly donned.
- 5 Mold the nose area to the shape of the face by pinching the nose-bridge from the top to the bottom. Make sure that the chin-flap is open and secure around the chin area.
- 6 Fit Check: Fit check the face seal as follows: Place both hands over the respirator. If the respirator is not fitted with an exhalation valve, exhale sharply; if the respirator is fitted with an exhalation valve, inhale sharply, if leaks around the edge are detected, re-adjust the head-straps and/or the nose-piece. Repeat the procedure until a satisfactory face fit has been achieved. **Important: If you feel that the headbands are too loose, you can increase the tension by tying a small knot in the headband.**



Willson P1 protection shields you against mechanically-generated dusts and mists.

- Products are certified to AS/NZS 1716:2003 Licence No:1134 for effective protection against mechanically-generated dusts and mists.
 - Approved for 10 times the exposure standard of dusts produced by grinding, drilling, sanding etc.
- Applications include textile, mining, construction, iron and steel industries, woodworking (except hard wood) etc.

Protection against dusts and mists containing:
 Calcium carbonate, cement, sulphur, glass-wool, coal, clay, kaolin, cellulose, cotton, flour, ferrous metals.

2100 NUISANCE DUST MASK

A lightweight hygiene mask which provides relief from large dust particles in low concentrations.

Special Features

- sweeping • dusting
- non-industrial applications.

Part No.
 2100 STANDARD SIZE



5110 P1 PREMIUM CUP SHAPE DUST RESPIRATOR



Premium cup shape P1 protection respirator suggested for use with particulate aerosols free of oil.

Suggested Applications

- medical • grinding
- polishing • sanding
- woodworking • sweeping
- dusty operations

Special Features

- P1 premium cup shape dust respirator.
- Willtech® boomerang seal.
- Yellow nose bridge indicating P1 protection.
- Size XL available.

Part No.
 1007693 STANDARD SIZE • 1007694 X-LARGE

5185 P1 CUP SHAPE DUST RESPIRATOR



Economical cup shape P1 protection respirator suggested for use with particulate aerosols free of oil.

Suggested Applications

- grinding
- sanding
- sweeping
- woodworking
- dusty operations

Special Features

- Yellow nose bridge indicating P1 protection.

Part No.
 1007691 STANDARD SIZE

5111 P1 PREMIUM CUP SHAPE DUST RESPIRATOR WITH EXHALATION VALVE



Full feature premium cup shape P1 protection respirator suggested for use with particulate aerosols free of oil.

Suggested Applications

- grinding
- sanding
- sweeping
- dusty/hot operations

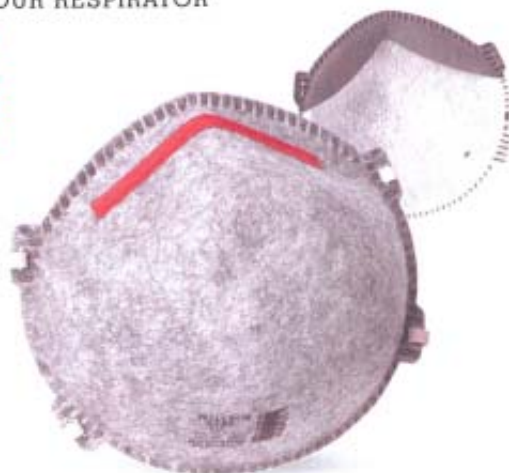
Special Features

- P1 premium cup shape dust respirator with exhalation valve.
- Willtech® boomerang seal.
- Yellow nose bridge indicating P1 protection.
- Size XL available.

Part No.
 1007696 STANDARD SIZE • 1007697 X-LARGE

5140 P1 PREMIUM CUP SHAPE NUISANCE ODOUR RESPIRATOR

P1



P1 protection premium cup respirator with charcoal layer filter for nuisance levels of organic vapour odour.

Suggested Applications

- grinding
- sanding
- sweeping
- dusty operations

Special Features

P1 premium cup shape nuisance odour respirator. Willtech® boomerang seal. Brown nose bridge indicates relief from nuisance levels of organic vapours. Size XL available.

Part No.

1007705 STANDARD SIZE • 1007706 X-LARGE

4110 P1 FLATFOLD STYLE DUST RESPIRATOR

P1



Individually packaged P1 protection flatfold respirator for convenient pocket storage.

Suggested Applications

- medical • grinding
- polishing • food handling
- sanding • sweeping
- dusty operations

Special Features

P1 flatfold style dust respirator. Willtech® boomerang seal. Sliding elastic ring headband. No staples, individually wrapped. Yellow nose bridge indicating P1 protection.

Part No.

1007716 STANDARD SIZE

5141 P1 PREMIUM CUP SHAPE NUISANCE ODOUR RESPIRATOR WITH EXHALATION VALVE

P1



P1 protection premium cup respirator with charcoal layer filter for organic vapour nuisance odour relief and exhalation valve.

Suggested Applications

- glass etching
- grinding
- sanding
- sweeping
- dusty/hot operations

Special Features

P1 premium nuisance-odour respirator with exhalation valve. Willtech® boomerang seal. Brown nose bridge indicating relief from nuisance levels of organic vapours. Size XL available.

Part No.

1007708 STANDARD SIZE • 1007709 X-LARGE

4111 P1 FLATFOLD STYLE DUST RESPIRATOR WITH EXHALATION VALVE

P1



Individually packaged P1 protection flatfold respirator with exhalation valve for convenient pocket storage.

Suggested Applications

- medical • grinding
- polishing • food handling
- sanding • sweeping
- dusty/hot operations

Special Features

P1 flatfold style dust respirator with exhalation valve. Willtech® boomerang seal. Sliding elastic ring headband. No staples, individually wrapped. Yellow nose bridge indicating P1 protection.

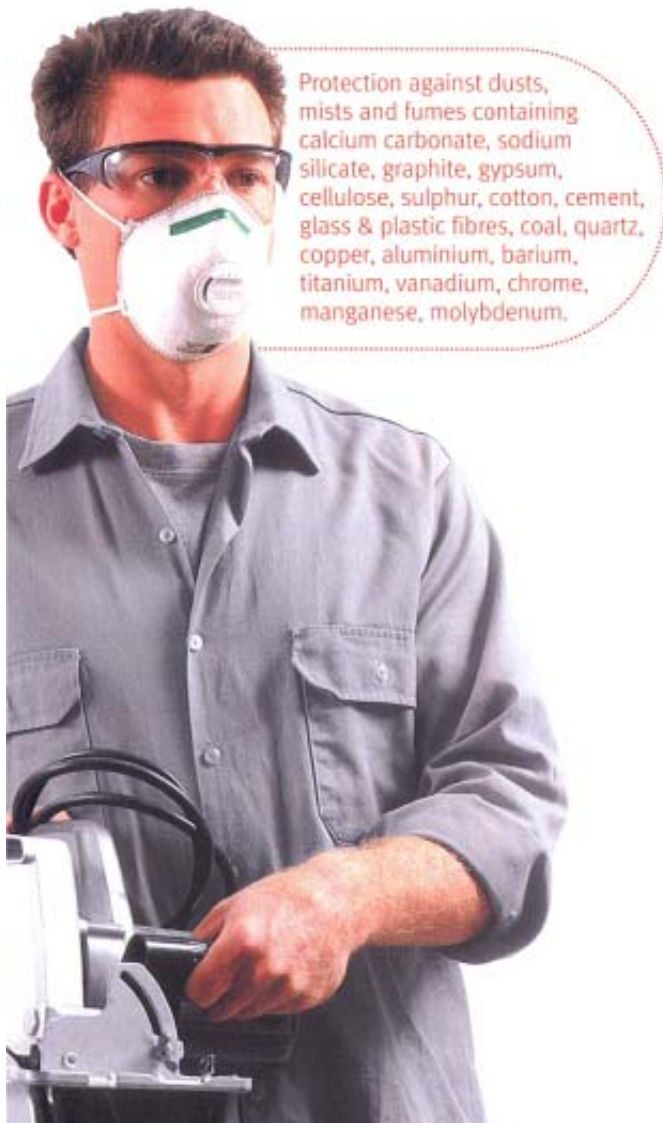
Part No.

1007717 STANDARD SIZE



Willson P2 protection shields you against both mechanically and thermally generated mists.

- All Lightweight Class P2 respirators are certified to AS/NZS 1716:2003 Licence No:1134.
- For protection against mechanically and thermally generated dusts and mists.
- Approved for 10 times the exposure standard of dusts produced by grinding, drilling, certain applications of brazing and welding etc.
- Colour coded. Green to indicate the respirator is a P2 respirator, brown for organic vapours and blue for acid gases and vapours.
- Applications include textile, mining, construction, iron and steel industries, car body preparation industry, wood-working, agricultural and horticultural industries, certain applications in welding operations, cutting and moulding of metals etc.



Protection against dusts, mists and fumes containing calcium carbonate, sodium silicate, graphite, gypsum, cellulose, sulphur, cotton, cement, glass & plastic fibres, coal, quartz, copper, aluminium, barium, titanium, vanadium, chrome, manganese, molybdenum.

5210 P2 PREMIUM CUP SHAPE RESPIRATOR



Economical cup shape P2 protection respirator suggested for use with particulate aerosols free of oil.

Suggested Applications

- glass etching • welding
- soldering • brazing
- torch cutting • metal pouring
- grinding • sanding • sweeping
- dusty operations.

Special Features

- P2 premium cup shape respirator.
- Willtech® boomerang seal.
- Green nose bridge indicating P2 protection.
- Size XL available.

Part No.

1007699 STANDARD SIZE • 1007700 X-LARGE

5211 P2 PREMIUM CUP SHAPE RESPIRATOR WITH EXHALATION VALVE



Full feature premium cup shape P2 protection respirator suggested for use with particulate aerosols free of oil.

Suggested Applications

- glass etching • welding
- soldering • brazing
- torch cutting • metal pouring
- grinding • sanding • sweeping
- dusty/hot operations.

Special Features

- P2 premium cup shape respirator.
- Willtech® boomerang seal and exhalation valve.
- Green nose bridge indicating P2 protection.
- Size XL available.

Part No.

1007702 STANDARD SIZE • 1007703 X-LARGE

5251 P2 PREMIUM CUP SHAPE RESPIRATOR WITH WILLTECH® POLO SEAL & EXHALATION VALVE

P2



P2 protection premium cup respirator with high protection polo seal and charcoal layer filter for organic vapour odour relief.

Suggested Applications

- glass etching • welding
- soldering • brazing
- torch cutting • metal pouring
- grinding • sanding • sweeping
- dusty operations.

Special Features

- Willtech® polo seal for high level comfort and protection with an exhalation valve.
- Adjustable headband.
- Brown nose bridge indicates relief from nuisance levels of organic vapours.
- Size XL available.

Part No.

1007711 STANDARD SIZE • 1007712 X-LARGE

4210 P2 FLATFOLD STYLE RESPIRATOR WITH WILLTECH® SEAL

P2



Individually packaged P2 protection flatfold respirator for convenient pocket storage.

Suggested Applications

- glass etching • welding
- soldering • brazing
- torch cutting • metal pouring
- grinding • sanding • sweeping
- dusty operations.

Special Features

- P2 flatfold style respirator with Willtech® seal.
- Sliding elastic ring headband.
- No staples, individually wrapped.
- Green nose bridge indicating P2 protection.

Part No.

1007718 STANDARD SIZE

5261 P2 PREMIUM CUP SHAPE RESPIRATOR WITH WILLTECH® BOOMERANG SEAL & EXHALATION VALVE

P2



P2 protection premium cup respirator with exhalation valve and charcoal layer filter for acid gas and odour relief.

Suggested Applications

- glass etching • welding
- soldering • brazing
- torch cutting • metal pouring
- grinding • sanding • sweeping
- dusty/hot operations.

Special Features

- P2 premium cup respirator with Willtech® boomerang seal and exhalation valve.
- Blue nose bridge indicating relief from nuisance levels of acid gases and vapours.
- Size XL available.

Part No.

1007714 STANDARD SIZE • 1007715 X-LARGE

4211 P2 FLATFOLD STYLE RESPIRATOR WITH WILLTECH® SEAL & EXHALATION VALVE

P2



Individually packaged P2 protection flatfold respirator with exhalation valve for convenient pocket storage.

Suggested Applications

- glass etching • welding
- soldering • brazing
- torch cutting • metal pouring
- grinding • sanding • sweeping
- dusty/hot operations.

Special Features

- P2 flatfold style respirator with Willtech® seal and exhalation valve.
- Sliding elastic ring headband.
- No staples, individually wrapped.
- Green nose bridge indicating P2 protection.

Part No.

1007720 STANDARD SIZE

→ RESPIRATORS DISPOSABLE



All MSA disposable respirators featured are designed and manufactured in Australia to Australian Standard AS/NZS 1716. This ensures consistent quality and performance. Attention to detail also ensures the highest level of comfort in a size range that meets the demands of all wearers.

AFFINITY DISPOSABLE RESPIRATORS

- Superior fit, comfort & performance
- Collapse resistant design
- 2 sizes for increased comfort & protection

AFFINITY P1

- Ideal for masonry, wood, metalwork, and general mining. Provides protection against mechanically generated dusts/mists containing coal, lead, and cotton dusts.
- **Small (box 20 / case 12 boxes) - Part No. 762601S**
- **Med/Large (box 20 / case 12 boxes) - Part No. 762611ML**

AFFINITY P1V

- Valved version for easier breathing
- **Small (box 10 / case 12 boxes) - Part No. 762601SV**
- **Med/Large (box 10 / case 12 boxes) - Part No. 762611MLV**

AFFINITY PLUS P2

- Provides protection against mechanically and thermally generated dusts / mists, fumes and aerosols as in crushing, blasting, grinding, welding, soldering and refining processes
- **Small (box 20 / case 12 boxes) - Part No. 762602S**
- **Med/Large (box 20 / case 12 boxes) - Part No. 762612ML**

AFFINITY PLUS P2V

- Valved version for easier breathing
- **Small (box 10 / Case 12 boxes) - Part No. 762602SV**
- **Med/Large (box 10 / case 12 boxes) - Part No. 762612MLV**

AFFINITY PLUS P2V

- For nuisance* odour removal with valve. For nuisance levels of organic vapours including those encountered in welding, agriculture and automotive industries
- **Med/Large (box 10 / case 12 boxes) - Part No. 763196MLV**

AFFINITY PLUS P2V

- For nuisance* acid gas removal with valve. For nuisance levels of acid gases including hydrogen fluoride, sulphur dioxide and chlorine. Industries include smelting, petrochemical and paper mills.
- **Med/Large (box 10 / case 12 boxes) - Part No. 763197MLV**

* Nuisance levels are those below Worksafe exposure standards.



TORNADO DISPOSABLE RESPIRATORS

- Extremely comfortable, flat-fold respirator
- Excellent filtration with minimal breathing resistance
- One size fits all, packaged individually in hygienically sealed pack

TORNADO P1

- For masonry, wood, metalwork and general mining. Provides protection against mechanically generated dusts/mists containing coal, lead, and cotton dusts
- **Part No. 227797 (box 20 / case 12 boxes)**

TORNADO P1V

- Valved version for easier breathing
- **Part No. 227798 (box 20 / case 12 boxes)**

TORNADO P2

- Provides protection against mechanically and thermally generated dusts / mists, fumes and aerosols as in crushing, blasting, grinding, welding, soldering and refining processes.
- **Part No. 227813 (box 20 / case 12 boxes)**

TORNADO P2V

- Valved version for easier breathing
- **Part No. 227814 (box 20 / case 12 boxes)**

Respiratory protection



General features of UniSafe respirators include:

- Economical protection against a range of hazards
- Lightweight, comfortable
- Twin elastic headbands
- Foam nose seal
- Adjustable nosepiece
- Both P1 and P2 available with valve for greater wearer comfort.

The popular valve models provide easier exhalation and reduces heat and pressure build-up within the respirator, keeping the wearer cool and comfortable.

The "FlatFold" design gives the benefit of folding flat to carry and store, also reducing the possibility of dirt entering the mask.

RDP1000 P1 particulate/mist respirator.
RDP2000 P2 particulate/mist/fume respirator.

ORDERING CODES

RP110 Non-toxic mask for nuisance dust (unapproved). Box of 50.
RDP1000 P1 particulate/mist mask. Box of 20.
RDP2000 P2 particulate/mist/fume mask. Box of 20.
RDP1000V P1 particulate/mist mask with valve. Box of 10.
RDP2000V P2 particulate/mist/fume mask with valve. Box of 10.



RDP1000V • P1 dust, mist, respirator with valve.



RDP2000V • P2 respirator with valve.



Australian Standard
AS/NZS 1716
Lic.No. 2537
Standards Australia

Compromise is not an option

- UniSafe "FlatFold" range of respirators conveniently fold flat to fit neatly in your pocket, making it easy to carry a spare
- Offers economical protection against a range of hazards
- Large surface area and low breathing resistance
- P1, P2 models available
 - Valve available for easier breathing
 - GP style for nuisance level organic vapours.



▲ **'FLATFOLD'** respirator • P1 and P2 models.



**NEW
2003
RELEASE**

▲ **'FLATFOLD'** respirator with exhalation valve • P1 and P2 models.

ORDERING CODES

| | |
|----------------|---|
| RDP1F | "FlatFold" P1, Box of 20. |
| RDP2F | "FlatFold" P2, Box of 20. |
| RDP1VF | "FlatFold" P1 with valve, Box of 10. |
| RDP2VF | "FlatFold" P2 with valve, Box of 10. |
| RDGP1VF | "FlatFold" P1 with carbon and valve, Box of 10. |
| RDGP2VF | "FlatFold" P2 with carbon and valve, Box of 10. |



▲ **'FLATFOLD'** respirator with activated carbon and exhalation valve • GP1 and GP2 models: GP1 nuisance levels of organic vapours; GP2 welding fume respirator for nuisance levels of ozone and organic vapours.



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