

3M™ 9900 Series Specialty Respirators

Description



The 3M™ 9900 Specialty Series Respirators have been developed for particular working environments. The 9900 Specialty Series Respirators provide effective respiratory protection against exposure to solid particles and/or nonvolatile liquid particles as well as offering relief from certain gases/vapours. They can be used for a wide range of applications from mining and weed spraying to waste sorting.

- Tested and Certified to AS/NZS 1716:2012
- Carbon layer provides protection against nuisance levels of certain gases/vapours (i.e. below Exposure Standards)
- Traditional convex shape, with nose clip and twin strap design
- Durable, collapse resistant inner shell
- Reliable, effective protection against fine particles
- 3M™ Advanced Electret Filter Material gives effective filtration with low breathing resistance for consistent high quality performance
- 3M™ Cool Flow™ exhalation valve offers improved comfort in hot humid environments and/or where work is hard and physical (9913V, 9916, and 9926ANZ models only)
- 3M™ 9913 and 3M™ 9913V respirators contain a galvanised steel noseclip suitable for use in underground coal mines and are 3M recommended for use against diesel particulate

Materials

The following materials are used in the production of the 9900 Specialty Series Respirators:

- **Straps:** Polyester / Polyisoprene
- **Staples:** Steel
- **Nose Foam:** Polyurethane

- **Nose Clip:** Aluminium / Galvanised Steel
- **Filter:** Polyester / Polypropylene / Carbon
- **Valve (9913V, 9916, and 9926ANZ models only):** Polypropylene
- **Valve Diaphragm (9913V, 9916, and 9926ANZ models only):** Polyisoprene

This respirator does not contain components made from natural rubber latex.

Maximum mass of products:

- Unvalved (9913 = 13g)
- Valved (9913V, 9916, 9926ANZ = 18g)

Standards

These products meet the requirements of Australian / New Zealand Standard AS/NZS 1716:2012 for Respiratory protective devices. They should be used to protect the wearer from solid and nonvolatile liquid particles and certain gases/ vapours only.

Products are classified by filtering efficiency and maximum total inward leakage performance (P1 & P2), also by organic vapour filter capacity (Type G).

P1 Filters are intended for use against mechanically generated particulates such as those generated from sanding, grinding, drilling, sweeping etc.

P2 Filters are intended for use against both mechanically and thermally generated particulates e.g welding, brazing etc. P2 filters may also help reduce breathing in pathogenic biological airborne particulates such as influenza virus.

Type G Filters are intended for use against organic compounds with low vapour pressure i.e. less than 1.3Pa (0.01mm Hg) at 25°C (this includes most agricultural chemicals).

Approvals

These respirators have been produced to comply with the requirements of the Australian /New Zealand Standard AS/ NZS 1716:2012 under an agreed production certification scheme operated during manufacture in accordance with the SAI Global StandardsMark programme.

Applications

These respirators are suitable for use in concentrations of solid and non-volatile liquid particles up to the following limits:

Table 1: Model Application Table

Model	AS/NZS 1716:2012 Classification	Exhalation Valve	Protection Factor x ES	Gas and Vapour
9913	GP1	Unvalved	10	Organic Vapours (< ES)
9913V	GP1	Valved	10	Organic Vapours (< ES)
9916	P1	Valved	10	Acid Gas (< ES)
9926ANZ	P2	Valved	10	Acid Gas (< ES)

ES = Exposure Standard

Respiratory protection is only effective if it is correctly selected, fitted, and worn throughout the time when the wearer is exposed to hazards.

Storage and Transportation

The 3M™ 9900 Specialty Series Respirators have a shelf life of 3 years. End of shelf life is marked on the product packaging. Before initial use, always check that the product is within the stated shelf life (use by date). Product should be stored in clean, dry conditions within the temperature range: – 20°C to + 25°C with a maximum relative humidity of <80%. When storing or transporting this product use original packaging provided.

Disposal

Contaminated products should be disposed as hazardous waste in accordance with local regulations.

Fitting Instructions

IMPORTANT NOTE

It is recommended that wearers be fit tested in accordance with AS/NZS 1715:2009 Standard. For information regarding fit testing procedures, please contact 3M.

Fitting instructions must be followed each time the respirator is worn. Before fitting device, ensure hands are clean.

See Figure 1 below.

1. Cup respirator in one hand with nosepiece at fingertips, allowing headbands to hang freely below hand.
2. Hold respirator under chin with nosepiece up.
3. Locate the upper strap across the crown of the head and the lower strap below the ears.
4. Straps must not be twisted.
5. Using both hands, mould noseclip to the shape of the nose to ensure a close fit and good seal. Pinching the noseclip using only one hand may result in less effective respirator performance.
6. The seal of the respirator on the face should be fit-checked before entering the workplace.

Figure 1: Fitting Instructions



Fit Check

1. Cover the front of the respirator with both hands being careful not to disturb the fit of the respirator.
2. (a) UNVALVED respirator - EXHALE sharply; (b) VALVED respirator - INHALE sharply.
3. If air leaks around the nose, re-adjust the nose clip to eliminate leakage. Repeat the above fit check.
4. If air leaks at the respirator edges, work the straps back along the sides of the head to eliminate leakage. Repeat the above fit check.

If you CANNOT achieve a proper fit DO NOT enter the hazardous area. See your supervisor.

It is recommended that wearers be fit tested in accordance with AS/NZS 1715 Standard. For information regarding fit testing procedures, please contact 3M.

9900 Series Specialty Respirators Product Range

Unvalved

9913



9926ANZ



Valved

9913V



9916



Warnings and Use Limitations

WARNING

Always be sure that the complete product is: -Suitable for the application; -Fitted correctly; -Worn during all periods of exposure; -Replaced when necessary.

- Proper selection, training, use and appropriate maintenance are essential in order for the product to help protect the wearer from certain airborne contaminants.
- Failure to follow all instructions on the use of these respiratory protection products and/or failure to properly wear the complete product during all periods of exposure may adversely affect the wearer's health, lead to severe or life threatening illness or permanent disability.
- For suitability and proper use follow local regulations, refer to all information supplied or contact an occupational hygienist, safety professional or 3M representative on the Tech Assist Helpline 3M Australia 1800 024 464, 3M New Zealand 0800 364 357.
- Before use, the wearer must be trained in use of the complete product in accordance with applicable Health and Safety standards/guidance.
- These products do not contain components made from natural rubber latex.
- These products do not protect against all gases/vapours, but offer relief from nuisance levels (i.e. levels below ES) of certain gases/ vapours.
- Do not use in atmospheres containing less than 19.5% oxygen. (3M definition. Individual countries may apply their own limits on oxygen deficiency. Seek advice if in doubt.)
- Do not use for respiratory protection against atmospheric contaminants/concentrations which are unknown or immediately dangerous to life and health (IDLH).

Do not use with beards or other facial hair that may inhibit contact between the face and the product, thus preventing a good seal.

- Leave the contaminated area immediately if:
 - Breathing becomes difficult
 - Dizziness or other distress occurs
- Discard and replace the respirator if it becomes damaged, breathing resistance becomes excessive, or at the end of the shift.
- Never alter, modify, or repair this device.
- In case of intended use in explosive atmospheres, contact 3M.

IMPORTANT NOTE

Important Notice: 3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



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3M PSD products are
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