

3M™ 8300 Series Particulate Respirator

Technical Data Sheet



Description

The 3M™ 8300 Series Particulate Respirators provide comfortable, effective respiratory protection for use in industries where workers will be exposed to dust particles and/or non-volatile liquid particles.

Features

- Tested and certified to AS/NZS 1716:2012
- Robust outer shell improves collapse resistance
- M-Noseclip adjusts easily for fewer pressure points and greater comfort on the nose
- Braided headbands improve comfort on the neck, face and head with a secure feel
- 3M™ Advanced Electret Filter Material gives effective filtration with low breathing resistance for consistent high quality performance
- The super-soft, cushioned inner lining helps workers stay comfortable
- 3M™ Cool Flow™ exhalation valve offers improved comfort in hot humid environments and/or where work is hard and physical*
- Coloured headbands for easy identification: yellow for P1, blue for P2

Materials

The following materials are used in the production of the 8300 Series Particulate Respirators:

Straps	Thermoplastic Elastomer
Nose Clip	Aluminium
Filter	Polypropylene
Valve*	Polypropylene
Valve diaphragm*	Thermoplastic Elastomer

These products do not contain components made from natural rubber latex.

Maximum mass of products:

- Unvalved (8310 & 8320) = 10g
- Valved (8312 & 8322) = 15g



Standards

These products meet the requirements of AS/NZS 1716:2012. They should be used to protect the wearer from solid and non-volatile liquid particles only.

Products are classified in AS/NZS 1716:2012 by filtering efficiency and maximum total inward leakage performance (P1, P2 and P3).

Performance tests in AS/NZS 1716:2012 include filter penetration. A full copy of AS/NZS 1716:2012 can be purchased from SAI Global.

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 Standards Mark programme.

Applications

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

Model	AS/NZS 1716 Classification	Exhalation Valve	Protection Factor x ES
8310	P2	Unvalved	up to 10x
8312	P1	Valved	up to 10x
8320	P2	Unvalved	up to 10x
8322	P2	Valved	up to 10x

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.

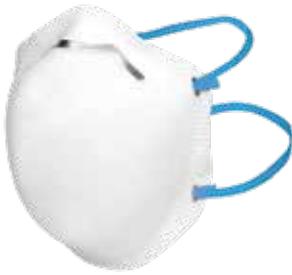
Storage and Transportation

The 3M™ 8300 Series Particulate Respirators have a shelf life of 5 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 of as hazardous waste in accordance with national regulations.

Product Range

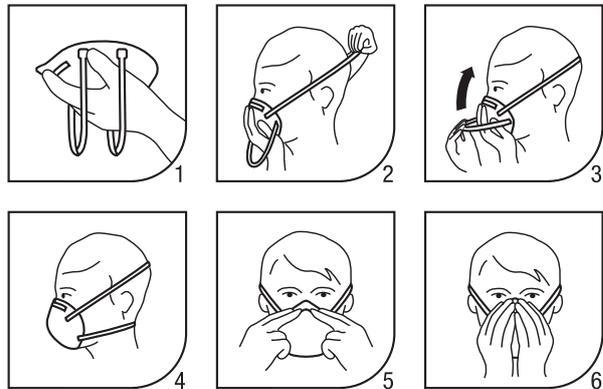
Unvalved	Valved
<p>8320</p> 	<p>8322</p> 
<p>8310</p> 	<p>8312</p> 

Fitting Instructions

See Figure 1 below.

1. Cup respirator in one hand with nosepiece at fingertips, allow 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



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.

Warnings and Use Limitations

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 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:
 - a) Breathing becomes difficult.
 - b) 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.

Warning: Respirators must not be used until your employer has determined whether usage will be in accordance with manufacturer's instructions. The wearer must be trained in the proper fitting and use of this product. Failure to follow all instructions and warnings on the use of this product and/or failure to wear this respirator during all times of exposure can reduce respirator effectiveness and result in illness or death. All respirators should be used in accordance with Australian standard AS/NZS 1715. It is recommended that fit testing be conducted before assigning a respirator to an individual. If you cannot achieve a proper fit, do not enter contaminated areas. Do not use with beards or other facial hair or conditions that prevent a good seal between the face and the sealing surface of the respirator.

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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