

# 3M™ 8000 Series Particulate Respirators

## Technical Data Sheet



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### Description

The 3M™ 8710, 8210, 8812 and 8822 Particulate Respirators provide effective respiratory protection for use in industries where workers will be exposed to dust particles and/or nonvolatile liquid particles.

- Tested and certified to AS/NZS 1716:2012.
- 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.

### Materials

The following materials are used in the production of the 8710, 8210, 8812 and 8822 Particulate Respirators:

Component	Material
Straps	8812, 8822 – Polyisoprene 8710 and 8210 – Thermoplastic Elastomer
Staples	8812, 8822 – Steel 8710 and 8210 – no staples
Nose Foam	Polyester
Nose Clip	8210 – Aluminium 8710, 8812, 8822 – Steel
Filter	Polyester / Polypropylene
Valve	Polypropylene
Valve Diaphragm	Polyisoprene

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

Maximum mass of products

- Unvalved (8710 & 8210) = 8g
- Valved (8812 & 8822) = 13g



### Standards

These products meet the requirements of Australian New Zealand Standard AS/NZS 1716:2012, Respiratory protective devices. They should be used to protect the wearer from solid and non-volatile liquid particles only.

Particulate Filter Respirators are classified by filtering efficiency and maximum total inward leakage performance (P1 & P2), also by inhalation resistance.

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.

### 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:

Model	AS/NZS 1716:2012 Classification	Exhalation Valve	Protection Factor x Workplace Exposure Standard(WES)/ Workplace Exposure Limit (WEL)
8710	P1	Unvalved	up to 10x
8812	P1	Valved	up to 10x
8210	P2	Unvalved	up to 10x
8822	P2	Valved	up to 10x

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™ 8710, 8210, 8812 and 8822 Particulate Respirators have a shelf life of five (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 as hazardous waste in accordance with local regulations.

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.

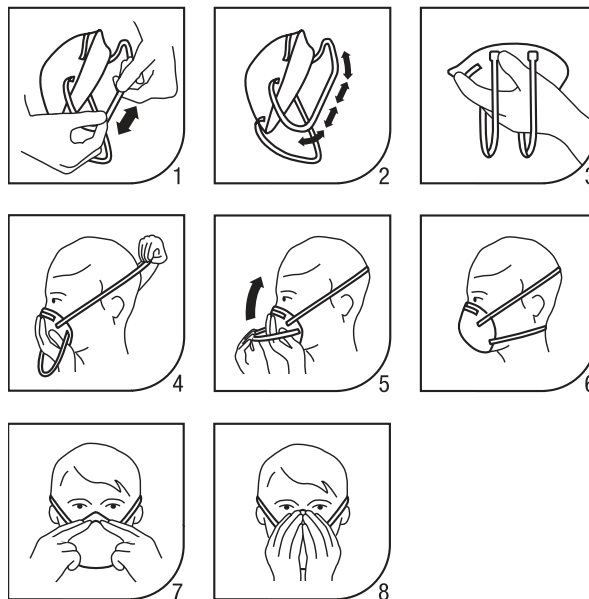
## Fitting Instructions - 8710 and 8210 only

See Figure 1.

All respirator components should be inspected for damage prior to each use.

1. and 2. Pre-stretch around entire length of each strap by pulling at 3cm intervals between both hands.
3. Cup respirator in one hand with nosepiece at fingertips, allow headbands to hang freely below hand.
4. Hold respirator under chin, with nosepiece up.
5. Locate the upper strap across the crown of the head and the lower strap below the ears.
6. Straps must not be twisted.
7. Using both hands, mould noseclip to the shape of the lower part 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.
8. The seal of the respirator on the face should be fit-checked before entering the workplace. Refer to Fit Check section for instructions.

Figure 1



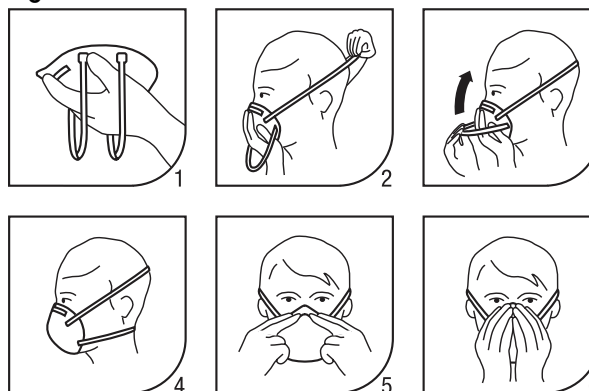
## Fitting Instructions - 8812 and 8822 only

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

See Figure 1.

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. Refer to Fit Check section for instructions.

Figure 2



## 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 Customer Service Australia 1300 363 565 3msupport.safety.au@mmm.com New Zealand 080252 627 3msupport.safety.nz@mmm.com.
- 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
  - 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.

## Ordering Information

SAP ID	Legacy ID	Availability		Model #	Description
		AUS	NZ		
7000037792	WX700900359	•	•	8822	3M™ Particulate Respirator 8822, P2, Valved, 10/Box, 24 Boxes/Case
7000037790	WX700900011	•	•	8210	3M™ Cupped Particulate Respirator 8210, P2, 20 ea/Box, 8 Boxes/Case
7100368379	UU013487200	•	•	8812	3M™ Cupped Particulate Respirator 8812, P1, Valved, 10/Box, 24 Boxes/Case
7000008661	WX700900029	•	•	8710	3M™ Cupped Particulate Respirator 8710, P1, 20 ea/Box, 8 Boxes/Case

## 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 Australia/New Zealand 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

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. 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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