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3M™ Aura™ Particulate Respirators 9300+ Series

Technical Data Sheet

Description

The 3M™ Aura™ Particulate Respirator 9300+ Series provides effective respiratory protection for use in environments where workers will be exposed to airborne dust particles and non-volatile liquid particles.

- Tested and compliant with AS/NZS 1716.
- Can provide protection against mechanically (P1) and thermally generated particulates (P2).
- Foldable, easy to store, 3-panel design accommodates facial movement for wearer comfort.
- Sculptured nose panel conforms to the nose and contours of the face and helps improve compatibility with 3M eyewear.
- Embedded nose clip is concealed and is metal detectable.
- Nose clip is kept securely in place within the layers of the respirator.
- Large, soft nose foam comfortable on the skin
- Hygienic individual packaging helps protect the respirator from contamination before use
- 3M low breathing resistance filter technology gives effective filtration for consistent high quality performance.
- Embossed top panel of the respirator helps to reduce fogging of eyewear.
- Innovative chin tab designed for ease of donning and adjustment to help achieve a more comfortable fit.
- 3M™ Cool Flow™ exhalation valve offers improved comfort in hot humid environments and/or where work is hard and physical (9312+, 9322+).
- Even strap pressure improves comfort on the neck, face and head with a secure feel.
- Coloured headbands for easy identification: Yellow for P1, Blue for P2.

Standards

The 3M™ Aura™ Particulate Respirator 9300+ Series respirators meet the Class P1 or P2 performance requirements of AS/NZS 1716:2012 for filtering mechanically (P1) and thermally (P2) generated particles. They should be used to protect the wearer from solid and non-volatile liquid particles only. Class P2 respirators are also recommended for use in certain applications against some pathogenic biological airborne particulates such as Influenza virus. A copy of AS/NZS 1716:2012 can be purchased from SAI Global.

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
9310+	P1	Unvalved	Up to 10x
9312+	P1	Valved	Up to 10x
9320+	P2	Unvalved	Up to 10x
9322+	P2	Valved	Up to 10x

ES = Exposure Standard

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

Certification

The 3M™ Aura™ Particulate Respirator 9300+ Series respirators have been produced to comply with the requirements of Australia/New Zealand Standard AS/NZS 1716:2012 under an agreed production certification scheme operated during manufacture in accordance with BSI.

Important

- Before use, the wearer must be trained in use of the complete product in accordance with AS/NZS 1715:2009 and other applicable Health and Safety standards/guidance.
- 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 and limitations on the use of these respirators and/or failure to wear the respirator during all times of exposure can reduce respirator effectiveness and may result in sickness or death.
- Do not use in atmospheres containing less than 19.5% oxygen, as these respirators do not supply oxygen. (3M definition – individual countries may apply their own limits on oxygen deficiency. Seek advice if in doubt.) Do not use these respirators for protection against atmospheric contaminants/concentrations which are unknown or at or above immediately dangerous to life and health (IDLH) levels.
- For suitability and proper use follow local regulations and refer to all information supplied. For additional assistance, contact an Occupational Hygienist, Safety professional or 3M TechAssist Helpline.

⚠ 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.
- Before initial use, always check the product is within the stated shelf life (use by date).
- It is recommended that fit testing be conducted before assigning a respirator to an individual. If you cannot achieve a proper fit then do not enter contaminated area. See your supervisor.
- Inspect respirator before each use to ensure it is in good working condition. Examine all the respirator parts for signs of damage including the two straps, nose clip, nose foam and staples. The respirator should be disposed of immediately upon observation of damaged or missing parts.
- Leave the contaminated area immediately and contact supervisor if dizziness, irritation or other distress occurs.
- Do not alter, repair, wash, abuse or misuse the respirator.
- Do not use with beards or other facial hair or other conditions that prevent a good seal between the face and the sealing edge of the respirator.
- The respirator can help protect the wearer's lungs against certain airborne contaminants; however, it will not prevent entry through other routes such as the skin or eyes, which would require additional personal protective equipment (PPE).
- These respirators are designed for occupational/professional use by adults who are properly trained in their use and limitations. These respirators are not designed to be used by children.
- Individuals with a compromised respiratory system, such as asthma or emphysema, should consult a physician and complete a medical evaluation prior to use.
- Operating Temperature Range: -20 to +50 degrees Celsius. CAUTION: Care should be taken when using these respirators at low temperatures as excessive moisture may cause the exhalation valve to freeze.
- The filtration efficiency of these respirators may decrease in the presence of oily mists.

Fitting Instructions

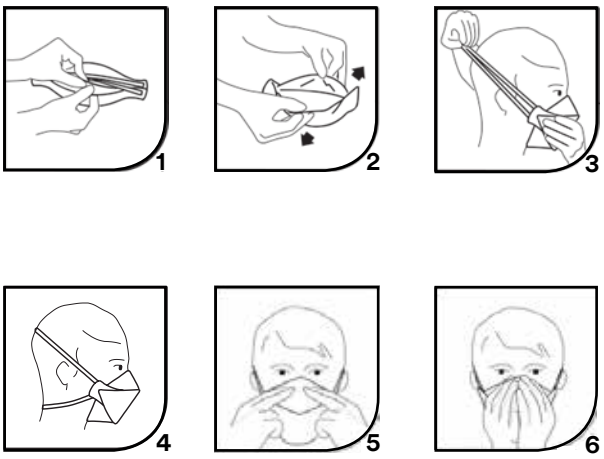
Must be followed each time the respirator is worn. Before fitting device, ensure hands are clean.

See Figure 1 below.

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

1. With reverse side up and using the tab, separate top and bottom panels to form a cup shape. Bend slightly at centre of the nose clip.
2. Ensure both panels are fully unfolded.
3. Cup respirator in one hand with open side towards face. Take both straps in other hand. Hold respirator under chin, with nose piece up, and pull straps over head.
4. Locate the upper strap across the crown of the head and the lower strap below the ears. Straps must not be twisted. Adjust top and bottom panels for comfortable fit, ensuring panels and chin tab are not folded in.
5. Using both hands, mould nose clip to the shape of the lower part of the nose to ensure a close fit and good seal. Pinching the nose clip using only one hand may result in less effective respirator performance - use two hands.
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 1715:2009 Standard. For information regarding fit testing procedures, please contact 3M.

Respirator Range

Unvalved	Valved
3M™ Aura™ Particulate Respirator 9310+ 	3M™ Aura Particulate Respirator 9312+ 
3M™ Aura™ Particulate Respirator 9320+ 	3M™ Aura Particulate Respirator 9322+ 

Removal Instructions

See Step 3 of Fitting Instructions and place hand over the respirator to maintain position on the face. Pull the bottom strap over your head. Still holding respirator in position, pull the top strap over your head and remove the respirator.

Disposal

Used respirators should be disposed of in accordance with relevant national regulations

Materials

The following materials are used in the production of the 3M™ Aura™ Particulate Respirator 9300+ Series respirators:

Straps	Thermoplastic Elastomer
Staples	Steel
Nose Foam	Polyurethane
Nose Clip	Aluminium
Filter	Polypropylene
Valve*	Polypropylene
Valve Diaphragm	Polyisoprene

*9312+ and 9322+ models only

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

Maximum mass of products:
Unvalved (9310+, 9320+) = 10 gm
Valved (9312+, 9322+) = 18 gm

Storage and Transportation

The 3M™ Aura™ Particulate Respirator 9300+ Series 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.

Warning

Selection of the most appropriate respiratory protective equipment (RPE) will depend on the particular situation and should be made only by a competent person knowledgeable of the actual working conditions and the limitations of RPE. Details regarding performance and limitations are set out in this technical bulletin as well as on the respirator packaging and user instructions. Before using any respirator, the wearer must read and understand the user instructions for the product. Specific legislation must be observed. If in doubt, contact a safety professional or 3M.

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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