Technical Datasheet

3M™ Aura™ 9300+ Series Particulate Respirators

Description

The 3M™ Aura™ 9300+ Series Particulate Respirators provide effective respiratory protection for use in industries where workers will be exposed to dust particles and/or non-volatile liquid particles.

- Tested and CE Approved to EN 149:2001+A1:2009
- Sculpted nose panel conforms to the nose and contours of the face and helps improve compatibility with 3M eyewear
- Low Breathing Resistance Filter Technology gives effective filtration with low breathing resistance for consistent high quality performance
- Embossed top panel helps reduce fogging of eyewear
- Innovative chin tab designed for ease of donning and adjustment to help achieve a comfortable fit
- 3M™ Cool Flow™ exhalation valve offers improved comfort in hot humid environments and/or where work is hard and physical*
- Flatfold, easy to store, proprietary 3-panel design accommodates facial movement for wearer comfort
- Individual hygienic packaging helps protect the respirator from contamination before use
- Large, soft nose foam is comfortable on the skin
- Coloured headbands for easy identification: yellow for FFP1, blue for FFP2 and red for FFP3

Materials

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

• Straps	Polyisoprene
• Staples	Steel
• Nose Foam	Polyurethane
• Nose Clip	Aluminium
• Filter	Polypropylene
• Valve*	Polypropylene
• Valve diaphragm*	Polyisoprene

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

Maximum mass of products:

- Unvalved (9310+ & 9320+) = 10g
- Valved (9312+, 9322+ & 9332+) = 15g

* 9312+, 9322+ and 9332+ models only

Standards

These products meet the requirements of the European Standard EN 149:2001 + A1:2009, filtering facepiece respirators for use against particles. They should be used to protect the wearer from solid and non-volatile liquid particles only.

Performance tests in this standard include filter penetration; extended exposure (loading) test; flammability; breathing resistance and total inward leakage. A full copy of EN 149:2001+A1:2009 can be purchased from your national standards body.

Designations:

NR = Non reusable (single shift use only)

D = Meets the clogging resistance requirements

Approvals

These products meet the requirements of the European Community Directive 89/686/EEC (Personal Protective Equipment Directive) and are thus CE marked.

Certification under Article 10, EC Type-Examination and Article 11, EC quality control, has been issued for these products by BSI Product Services, Maylands Avenue, Hemel Hempstead, HP2 4SQ, UK (Notified Body number 0086).

Applications

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

Model	EN 149+A1 Classification	Exhalation Valve	Maximum Use Concentration
9310+	FFP1 NR D	Unvalved	4 x WEL**
9312+	FFP1 NR D	Valved	4 x WEL
9320+	FFP2 NR D	Unvalved	10 x WEL
9322+	FFP2 NR D	Valved	10 x WEL
9332+	FFP3 NR D	Valved	20 x WEL

** Workplace Exposure Limit

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

Respirators Range


3M™ Aura™ Particulate Respirator 9310+


3M™ Aura™ Particulate Respirator 9312+


3M™ Aura™ Particulate Respirator 9320+


3M™ Aura™ Particulate Respirator 9322+


3M™ Aura™ Particulate Respirator 9330+


3M™ Aura™ Particulate Respirator 9332+

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Storage and Transportation

The 3M™ Aura™ 9300+ 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 as hazardous waste in accordance with national regulations.

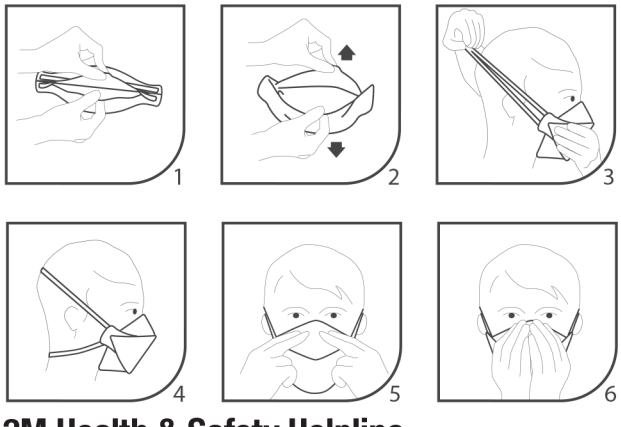
Fitting Instructions

See Figure 1.

Before fitting device, ensure hands are clean.

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 noseclip.
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 nosepiece 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 a comfortable fit, ensuring panels and chin tab are not folded in.
5. 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.
6. The seal of the respirator on the face should be fit-checked before entering the contaminated area.

Figure 1



3M Health & Safety Helpline

Fit Check

1. Cover the front of the respirator with both hands being careful not to disturb its fit.
2. (a) UNVALVED respirator - EXHALE sharply;
   (b) VALVED respirator - INHALE sharply.
3. If air leaks around the nose, re-adjust the noseclip 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.

Users should be fit tested in accordance with national requirements.

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 a safety professional/3M representative.
- 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.

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