

3M™ 8214, N95 Respirator

Technical Data Sheet



ID 851137
RID 794407

Description

The 3M™ 8214 Welding Respirator provides lightweight, effective, comfortable and hygienic respiratory protection against dust particles, non-volatile liquid particles and metal fumes whilst resisting clogging for extended use against welding fumes.

The 3M™ 8214 respirator additionally provides respiratory protection against Ozone as well as offering relief from nuisance levels* of organic vapours.

Features

- NIOSH approved N95 rating.
- Flame resistant, anti-clog, outer surface minimises the detrimental effects associated with welding splatter.
- The carbon layer in 3M™ 8214 respirators provides protection against Ozone gas (10x Workplace Exposure Standard(WES)/Workplace Exposure Limit (WEL) and nuisance levels* of organic vapours (below WES/WEL).
- 4 point adjustable braided headbands help achieve a more secure feel and provide comfort to face, head and neck.
- 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.
- Compatible with 3M™ Speedglas™ Welding Headtops.
- Foam Face Seal.

* Nuisance levels are those levels below the Workplace Exposure Standard(WES)/Workplace Exposure Limit (WEL)



Materials

The following materials are used in the production of the 8214 Welding Respirator:

Component	Material
Straps	Braided Polyisoprene & Cotton/ Polyester
Nose Clip	Aluminium
Filter	Polypropylene
Valve	Polypropylene & Polyisoprene
Buckles	Polypropylene
Face Seal	Polyvinyl Chloride Foam
Carbon Layer	Activated Carbon
Shell	Polyester, Flame Retardant

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

Maximum mass of product = 35g

Approvals and Standards

- NIOSH approved N95 particulate respirator.
- Meets NIOSH 42 CFR 84 N95 requirements for a minimum 95% filtration efficiency against solid and liquid aerosols that do not contain oil.
- NIOSH approval number: TC-84A-0454
- Assigned Protection Factor (APF 10) per AS/NZS 1715:2009

Use For

- Use for solid particulates and liquid mists in concentrations not exceeding 10X Workplace Exposure Standard(WES)/ Workplace Exposure Limit (WEL)
- Use for certain metal fumes from welding, brazing, cutting, and heating of metals.
- Use for nuisance level organic vapors such as solvents, degreasers, and/or resins.
Nuisance level refers to concentrations not exceeding applicable occupational exposure limits whichever is lower.
- 3M recommended for ozone protection up to 10X Workplace Exposure Standard(WES)/Workplace Exposure Limit (WEL), for up to 8 hours of use. Not NIOSH approved for use against ozone.
- Always follow User Instructions and use in manners as indicated.

Do Not Use For

- DO NOT use for gases, oil aerosols, asbestos, arsenic, cadmium, lead, 4,4-methylene dianiline (MDA), or abrasive blasting.
- DO NOT use for particulate or ozone concentration exceeding 10X Workplace Exposure Standard(WES)/Workplace Exposure Limit (WEL).
- DO NOT use for organic vapour concentrations exceeding the exposure standard.
- DO NOT use in any manner not indicated in the User Instructions.

Storage and Transportation

The 3M™ 8214 Welding Respirator has 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.

Time Use Limitation

Replace the respirator when it becomes dirty, damaged, or difficult to breathe through. If used for ozone protection, replace respirator after 8 hours of use for ozone, or earlier if smell, taste or irritation from contaminants is detected.

Cleaning

DO NOT immerse product in water, detergent, cleaning fluids etc.

Fitting Instructions

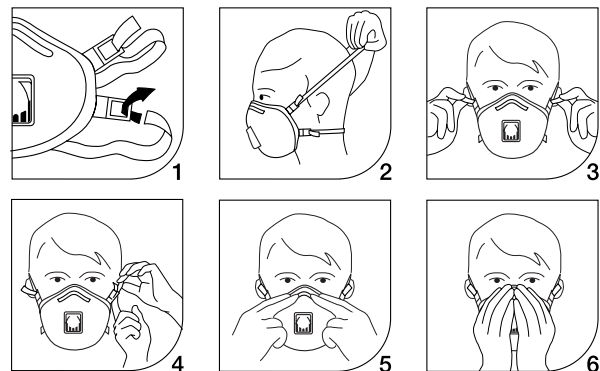
Must be followed each time the respirator is worn. Before fitting device, ensure hands are clean.

See Figure 1 below.

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

1. 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 Fitting Check section.

Figure 1



Fitting 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 gases/vapours except against Ozone in concentrations up to 10 x ES and relief from nuisance levels of Organic Vapours (i.e. levels below ES). See packaging for specific use conditions.
- 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 indoubt).
- 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.
- For single shift use or re-usable devices: Discard and replace the respirator if it becomes damaged, breathing resistance becomes excessive, Ozone breakthrough occurs 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		
7000002083	70070799534	•	•	8214	3M™ Particulate Respirator 8214, N95, with Faceseal and Nuisance Level Organic Vapour Relief 80 EA/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.



3M Australia Pty Ltd
Personal Safety Division
Bldg A, 1 Rivett Road
North Ryde NSW 2113
Customer Service: 1300 363 565
Email: 3msupport.safety.au@mmm.com
Web: www.3M.com/au/ppesafety

3M New Zealand Ltd
Personal Safety Division
94 Apollo Drive, Rosedale
Auckland 0632
Customer Service: 0800 252 627
Email: 3msupport.safety.nz@mmm.com
Web: www.3M.com/nz/ppesafety

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