

# Particulate Welding Respirators 8214 and 8514, N95 with Nuisance Level Organic Vapor Relief<sup>2</sup>

Issue Date 7/22/05

The 3M™ Particulate Welding Respirators 8214 and 8514, N95 are designed for applications such as welding, soldering and other operations involving metal fumes including those with ozone<sup>1</sup> and nuisance levels of organic vapors.<sup>2</sup> These products' many features help provide workers comfortable, durable respiratory protection.

### NIOSH approved N95

- At least 95% filtration efficiency against solid and liquid aerosols that do not contain oil.<sup>3</sup> TC-84A-0454

### 3M™ Cool Flow™ Exhalation Valve

- Patented one-way valve offers easy exhalation for cooler dry comfort.

### Carbon Filter Material

- Provides 3M recommended ozone protection (up to 10 x PEL).<sup>1</sup>
- Provides relief from odors caused by nuisance level organic vapors associated with some welding operations.<sup>2</sup>

### Cake-resistant filter media

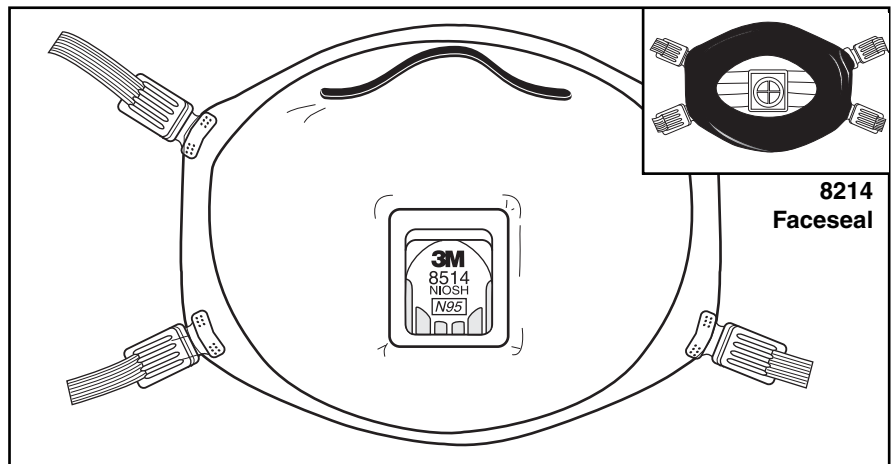
- Uniquely-designed filter layers reduce the caking of particles on the respirator surface.
- Helps make the respirator breathe easier longer, which contributes to comfort, longer service life and increased savings.

### Face seal (8214 only)

- Contours easily to help provide a good seal.
- Comfortable to wear.

### Adjustable noseclip

- Helps provide a custom fit and secure seal.
- Reduces the potential for eyewear fogging.



3M™ Particulate Welding Respirator 8514, N95  
(Inset photo: 3M™ Particulate Welding Respirator 8214, N95)

### Fully adjustable straps

- A single tug helps provide a comfortable, secure fit.

### 3M™ Welding Web

- The protective layers of this respirator are flame resistant as demonstrated per ASTM D2859-96. Not a substitute for a faceshield.

### Suggested Applications



- Welding
- Brazing
- Soldering
- Torch cutting
- Metal pouring



- Grinding
- Sanding
- Sweeping
- Bagging
- Other dusty/hot operations



- Foundry operations
- Lab settings
- Petrochemical operations
- Undercoating

1. **3M recommended** for ozone protection up to 10 times the OSHA PEL, or applicable exposure limits, whichever is lower. (Not NIOSH approved for ozone.)
2. **3M recommended** for relief against nuisance levels of organic vapors. Nuisance level organic vapor refers to concentrations not exceeding the OSHA PEL, or applicable exposure limits, whichever is lower.
3. Tested against particles approximately 0.3 micron in size (mass median aerodynamic diameter) per 42 CFR 84.



**⚠ WARNING**

These respirators help reduce exposure to certain particles. **Misuse may result in sickness or death.** Before use, the wearer must read and understand **User Instructions** provided as a part of product packaging. Time use limitations may apply. For proper use, see package instructions, supervisor or call 3M OH&ESD Technical Service in U.S.A., 1-800-243-4630. In Canada, call 1-800-267-4414.

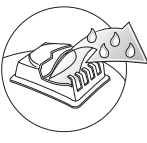

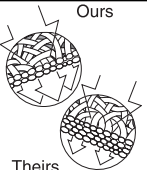

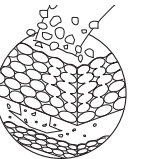
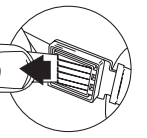

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**Filtera**<sup>™</sup>  
.com

(888) 933-0100

# 3M™ Particulate Welding Respirators 8214 and 8514, N95 with Nuisance Level Organic Vapor Relief

## Technologies

|   |   |  |  |   |   |   |
|---|---|--|--|---|---|---|
|                            |                      |                                   |   |   |      |    |
| <b>3M™ Cool Flow™ Exhalation Valve</b><br>Patented one-way valve for easy exhalation and cool, dry comfort. | <b>Faceseal</b><br>Soft and secure, conforms closely to face for long-lasting comfort and protection. | <b>Advanced Electret Media</b><br>Advanced electrostatically charged microfibers make breathing easier and cooler. | <b>Odor-removing filter material</b><br>Carbon layers remove many nuisance level odors for greater comfort and productivity. | <b>Cake-resistant filter media</b><br>Specially designed filter layers provide longer respirator life and easier breathing. | <b>Fully adjustable straps</b><br>A single tug helps provide a comfortable, secure fit. | <b>3M™ Welding Web</b><br>Unique protective layers are designed to be flame resistant as demonstrated per ASTM D2859-96. (Not a substitute for a faceshield.) |
| ✓   | 8214    8514  | ✓  | ✓  | ✓   | ✓   | ✓   |

| Respirators Per Box | Respirators Per Case |
|---------------------|----------------------|
| 10                  | 80                   |

### Use For:

- Solids such as those from processing minerals, coal, iron ore, flour, and certain other substances.
- Liquid or non-oil based particles from sprays that do not also emit **harmful** vapors.
- Metal fumes produced from welding, cutting and other operations involving heating of metals.

### Do Not Use For:

Gases, oil aerosols, asbestos, arsenic, cadmium, lead, 4,4'-methylenedianiline (MDA) or sandblasting. Aerosol and/or ozone concentrations that exceed 10 times the OSHA PEL, or applicable exposure limits, whichever is lower. Organic vapors, including those present in paint spraying operations, when concentrations exceed the OSHA PEL or applicable exposure limits, whichever is lower. These respirators do not supply oxygen.

**3M Occupational Health and Environmental Safety Division**  
3M Center, Building 235-2W-70  
St. Paul, MN 55144-1000

### Important

Before using these respirators, you must determine the following:

1. The type of contaminant(s) for which the respirator is being selected.
2. The concentration level of contaminant(s).
3. Whether the respirator can be properly fitted on the wearer's face. Do not use with beards, on other facial hair, or other conditions that prevent a good seal between the face and the faceseal of the respirator.
4. Before use of these respirators, a written respiratory protection program must be implemented, meeting all the requirements of OSHA 29 CFR 1910.134, including training, medical evaluation and fit testing.

### Time Use Limitation

If respirator becomes damaged, soiled, or breathing becomes difficult, leave the contaminated area immediately and dispose of the respirator.

### Additional Information

These respirators contain no components made from natural rubber latex.

### For more information, please contact:

#### 3M Occupational Health and Environmental Safety Division (OH&ESD)

#### In the U.S., contact:

**Sales Assistance**  
1-800-328-1667  
**Technical Assistance**  
1-800-243-4630  
**Fax On Demand**  
1-800-646-1655  
**Internet**  
[www.3M.com/occsafety](http://www.3M.com/occsafety)  
**For other 3M products**  
1-800-3M HELPS

#### In Canada, contact:

3M Canada Company, OH&ESD  
P.O. Box 5757  
London, Ontario N6A 4T1  
**Sales Assistance**  
1-800-265-1840, ext. 6137  
**Technical Assistance (Canada only)**  
1-800-267-4414  
**Fax On Demand**  
1-800-646-1655  
**Internet**  
[www.3M.com/CA/occsafety](http://www.3M.com/CA/occsafety)

**Technical Assistance In Mexico**  
01-800-712-0646  
5270-2255, 5270-2119 (Mexico City only)  
**Technical Assistance In Brazil**  
0800-132333  
**Fax On Demand O.U.S. Locations**  
1-651-732-6530