

Designed with welders' needs in mind, 3M[™] Disposable Welding Respirators have proprietary technology that allows the wearer to breathe easier and potentially reduce costs by wearing the respirator longer.







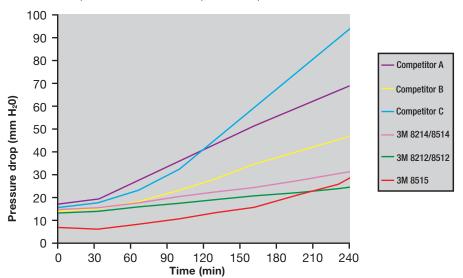
Illustration of 10,000x magnified electrostatically charged microfibers.

3M Disposable Welding Respirator technology

- The cake-resistant filter media helps prevent buildup on the respirator, providing longer respirator life. (Does not apply to the 3M 8515.)
- Welding web is flame resistant per modified ASTM D2859. (Not a substitute for a faceshield.)
- Advanced Electrostatic Media (AEM) technology enhances airflow through the material.
- The proprietary 3M[™] Cool Flow[™] Valve helps reduce heat buildup inside the respirator.

3M Disposable Welding Respirators meet the challenge.

The chart below demonstrates that after exposure to welding fumes, 3M's disposable welding respirators are easier to breathe through when compared with several competitive respirators.*



*Loading with flux-cored arc welding fume (mild steel wire on mild steel base) at 85 L/min. Source: "Comparison of Pressure Drop and Filtration Efficiency of Particulate Respirators using Welding Fumes and Sodium Chloride" Ann.Occup. Hyg., Vol. 55, No. 6 pp. 666-680, 2011.

Note: 8212 and 8514 models were not tested but are the same construction as 8512 and 8214, respectively, with the exception of the presence of faceseal.

Approximate time values based on loading to 70 mg.

These results are not intended to replicate all worker breathing rates. Actual results may vary.

3M[™] Disposable Respirators Designed for Welding Applications

Welding and metal-pouring respirators all feature the proprietary 3M™ Cool Flow™ Valve and Advanced Electrostatic Media (AEM).

8512 (N95)

This respirator features the 3M™ Cool Flow™ Valve, welding web, cake-resistant filter media, nose foam, adjustable noseclip and buckle straps.

Potential applications: welding, metal pouring.



8514 (N95)

A respirator designed for applications where metal fumes are present, including those with ozone* and nuisance-level **organic vapors.****This respirator features the 3M[™]
Cool Flow[™] Valve, welding web, cake-resistant filter media, nose foam, adjustable noseclip and buckle straps.

Potential applications: welding, particularly with stainless, galvanized and aluminum metal pouring.



8212 (N95)

This option contains all of the features of the 8512, plus a comfortable foam faceseal.

Potential applications: welding, metal pouring.



8214 (N95) AAD #07187

All the features of the 8514, plus a comfortable foam faceseal.*.**

Potential applications: welding, particularly with stainless, galvanized and aluminum metal pouring.



8515 (N95) **AAD #07189**

An economical option for welders. Features the 3M[™] Cool Flow[™] Valve, welding web, adjustable M-Noseclip and braided headbands to help provide a custom and secure seal.

Potential applications: welding, metal pouring.

Does not contain cake-resistant filter media.



- *3M recommended for ozone protection up to 10X OSHA PEL. Not NIOSH approved for ozone.
- **3M recommended for relief against nuisance-level organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.



These respirators help protect against certain particles. **Misuse may result in sickness or death.** For proper use, see supervisor, or *User Instructions*, or call 3M PSD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.



Personal Safety Division 3M Center, Building 235-2W-70 Saint Paul, MN 55144-1000

For More Information

Technical Service: 1-800-243-4630
Customer Service: 1-800-328-1667
Website 3M.com/PPESafety

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