3M™ Disposable Filtering Facepiece Respirators

Workers want respirators that are comfortable, lightweight and convenient. You want quality products from a supplier you can depend upon. 3M developed the first filtering facepiece respirator to receive NIOSH approval in 1972, and has created numerous proprietary technologies since then that have been incorporated throughout our complete line of disposable respirators. Today, our extensive family of respirators offers a full range of comfort, convenience and value. Respiratory protection from a company you can rely on.
Features of 3M Filtering Facepiece Respirators

Workers in many industries require protection from airborne particles and mists. To meet their needs, 3M offers a wide selection of NIOSH-approved filtering facepiece respirators to help match the right respirator to just about any task. Whether it’s sweeping, sanding, grinding, sawing, bagging or welding, 3M provides a variety of innovative technologies and features to help meet protection and comfort needs.

- lightweight and comfortable
- adjustable noseclips for custom seal
- variety of strap types and attachments
- some available with carbon filter material for nuisance level gas/vapor relief
- compatible with a variety of eye and hearing protection

The Importance of Comfort

To make sure a respirator provides protection, it must be worn during all periods of exposure. Fortunately, 3M uses a variety of innovative technologies and features designed to enhance user comfort and help increase wear time.

Disposable respirators are most effective when there is a good seal between the respirator and your face. To obtain a good seal, always follow all directions provided with each respirator model.

In general, for all respirator models, the respirator should be correctly positioned on your face and head:

- Upper strap should be positioned on the crown of the head.
- Lower strap should be positioned below the ears.
- Noseclip should be completely molded to the shape of the nose using two hands.
- Always conduct a user seal check.
- Follow the user and donning instructions for the specific model.

Particulate filter types

NIOSH-approved filters are rated as N95, R95, P95, N99, R99, P99, N100 (99.97%), R100 or P100. The number 95, 99, or 100 indicates the percent NIOSH filtration efficiency.

N Series
- Used in particulate environments free of oil aerosols.

R Series
- Used for oil and non-oil particles with time use limitations specified by NIOSH.

P Series
- Used for oil and non-oil particles with time use limitations specified by manufacturer.

Important

All 3M Filtering Facepieces are NIOSH-approved respirators. Before using, you must determine the following:

1. The types of contaminants for which the respirator is being selected, and exposure time.
2. The concentration level of the contaminant(s). Do not use for particle concentrations that exceed 10 times the OSHA PEL or applicable occupational exposure limit, whichever is lower.
3. Whether the respirator can be properly fitted to the wearer’s face. Do not use with beards, or other conditions that prevent a good seal between the face and the sealing surface of the respirator.
4. Before required use of filtering facepiece respirators, a written respiratory protection program must be implemented, meeting all the requirements of OSHA 29 CFR 1910.134 including medical evaluation, training, and fit testing.

1. 3M recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.
Product Preference Selector

Use the selector below to identify which respirator may be preferred for increased worker comfort.

What type of particles are in your environment?

**OIL AND NON-OIL**
R- or P-Series Respirators

Is a P100 respirator required or preferred?

**YES**
8293

**NO**

Is the environment hot and humid or is additional worker comfort desired?

**NO**

Is nuisance level OV/AG reduction preferred?**

**NO**
8246

**YES**
8576

**AG**

**OV**

**NO**

Is nuisance level OV/AG reduction preferred?**

**NO**
8247

**YES**
8211

**NO**

8240

**YES**
8271

**NON-OIL**
N-Series Respirators

Is this a welding application or is a N100 respirator required or preferred?

**YES**

Is the environment hot and humid or is additional worker comfort desired?

**NO**

8233

**YES**

Is ozone* or nuisance level OV reduction preferred?**

**NO**

Is a folded product preferred?

**NO**

Is a faceseal preferred?

**YES**

**NO**

**YES**

**NO**

8210

8110s

8210 Plus

8200

9210

9105

8577

8210V

8516

8511

Didn’t find what you want? Don’t forget that R and P series respirators can also be used in non-oil environments.

*3M recommended for ozone protection up to 10X OSHA PEL. Not NIOSH approved for ozone.
**3M recommended for relief against nuisance level acid gas (AG) or organic vapors (OV). Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.
IMPORTANT: All 3M products shown in this catalog must be used in accordance with the OSHA regulations and the user instructions, warnings, and limitations accompanying each product.

Unvalved N95 Respirators

8210 (N95)
This respirator is designed to help protect workers against certain non-oil particles. It features Advanced Electrostatic Media, welded strap attachment, soft nose foam, and an adjustable noseclip to help ensure a custom and secure seal.

8110S (N95)
An option that contains many of the features of the 8210, designed specifically for people with smaller faces.

8200 (N95) AAD #07023
An economical respirator that helps protect against certain non-oil based particles, this features Advanced Electrostatic Media, an adjustable noseclip, and nose foam for a custom and secure seal.

8210 Plus (N95) AAD #07048
This has all the features that make the 8210 one of the most widely used disposable respirators in the industry – with the addition of comfortable braided headbands and staple-free attachment.

9210 (N95) AAD #37021
A breakthrough in comfort and convenience. This innovatively designed three-panel respirator helps deliver comfortable, reliable worker protection against non-oil based particles. Individually packaged

9105 & 9105S (N95)
The economical 3M™ VFlex™ Particulate Respirator’s proprietary V-shaped pleats help make breathing easier, expand to provide a comfortable seal, and flex with mouth movement for easier talking. Available in two sizes to fit a broad range of faces.
Comfort Plus

These respirators all feature the proprietary 3M™ Cool Flow™ Exhalation Valve.

**N95 Respirators**

8211 (N95)
This respirator offers all the great features of the 8511, plus a comfortable foam faceseal. Its design helps protect against certain non-oil based particles.

9211 (N95) AAD #37022
An innovative three-panel respirator that’s ideally suited for work situations involving heat, humidity, or long periods of wear.
Individually packaged

8210V (N95)
An economical option when a valved respirator is desired, this respirator is based on the popular 8210 and features the proprietary 3M™ Cool Flow™ Valve.

8511 (N95) AAD #07185
Our most popular valved model, this respirator helps provide protection against certain non-oil based particles. Ideally suited for work situations involving heat, humidity, or long periods of wear.

**100 Class Respirators**

8293 (P100)
For those who want NIOSH’s highest-rated filtration efficiency in a disposable respirator, this provides a minimum filter efficiency of 99.97% against oil-based particles.
Individually packaged

8233 (N100)
For those who want NIOSH’s highest-rated filtration efficiency in a disposable respirator, this provides a minimum filter efficiency of 99.97% against non-oil based particles.
Individually packaged

8211 (N95) AAD #07185
This respirator offers all the great features of the 8511, plus a comfortable foam faceseal. Its design helps protect against certain non-oil based particles.

8210V (N95)
An economical option when a valved respirator is desired, this respirator is based on the popular 8210 and features the proprietary 3M™ Cool Flow™ Valve.

**Featured Technologies**

3M’s technological features help you match the right respirator to your environment. Use this color code to identify which features are included on each respirator.

- **Advanced Electrostatic Media**: Proprietary filter media with electrostatically charged microfibers designed for ease of breathing.
- **Cool Flow™ Exhalation Valve**: Proprietary one-way valve for easy exhalation and cool comfort.
- **Faceseal**: Soft and secure, conforms closely to face for additional comfort.
- **P-Series Filter**: Proprietary Advanced Electrostatic Media, appropriate for prolonged use in both oil and non-oil containing environments.
Welding and Metal Pouring

Welding and metal pouring respirators all feature the proprietary 3M™ Cool Flow™ Exhalation Valve.

N95 Respirators

8512 (N95)
This respirator features the 3M™ Cool Flow™ Exhalation Valve, welding web, cake-resistant filter media, nose foam, adjustable noseclip, and buckle straps.
Potential Applications: Welding, metal pouring.

8212 (N95)
This option contains all of the features of the 8512 plus a comfortable foam faceseal.
Potential Applications: Welding, 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.

8514 (N95)
A respirator designed for applications where metal fumes are present, including those with ozone* and nuisance level organic vapors.*
Potential Applications: Welding, particularly with stainless, galvanized and aluminum and 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.

8516 (N95)
A respirator specifically designed for metal pouring applications in the aluminum industry. Helps protect against certain non-oil based particles, including those with nuisance levels of acid gases** such as sulphur dioxide, hydrogen fluoride, and/or chlorine.
Potential Applications: Metal pouring.

* 3M recommended for ozone protection up to 10X OSHA PEL. Not NIOSH approved for ozone.
** 3M recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.
**R95 Respirators**

R series are resistant to oil mist.

**8247 (R95) AAD #07186**

This respirator helps provide comfortable protection against certain oil and non-oil based particles — including those with nuisance levels of organic vapors*, such as solvents, degreasers, and resins.

Potential Applications: Foundry operations, lab settings, agriculture, petrochemical manufacturing and undercoating where particles and nuisance levels* of organic vapors may be present.

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**8246 (R95)**

A respirator designed to help protect against certain oil and non-oil based particles — including those with nuisance levels of acid gases* such as sulphur dioxide, hydrogen fluoride, and/or chlorine.

Potential Applications: Glass etching, chemical processing, paper processing, aluminum smelting and brewing operations where particles and nuisance levels* of acid gases may be present.

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**8240 (R95)**

This design helps protect against certain oil and non-oil based particles. Features a collapse-resistant shell for increased durability.

Potential Applications: Grinding, sanding, sweeping, machining and other dust producing/oily operations.

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**P95 Respirators**

P series respirators are oil-resistant and can be used wherever protection in oil environments is needed.

**8577 (P95)**

This respirator helps provide comfortable, reliable worker protection against certain oil and non-oil based particles — including those with nuisance levels of organic vapors* such as solvents, degreasers, and resins.

Potential Applications: Foundry operation, lab settings, agricultural, petrochemical and manufacturing.

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**8576 (P95)**

A respirator designed to help provide comfortable, reliable worker protection against certain oil and non-oil based particles — including those with nuisance levels of acid gases* such as sulphur dioxide, hydrogen fluoride, and/or chlorine.

Potential Applications: Glass etching, chemical processing, paper processing, aluminum smelting and brewing operations.

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**8271 (P95)**

This design helps protect against certain oil and non-oil based particles. It features a collapse-resistant shell for increased durability in most hot, humid conditions.

Potential Applications: Grinding, sanding, sweeping, machining and other dust producing/oily operations.

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*3M recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.
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### WARNING

These respirators help reduce exposures to certain airborne particulates. Before use, the wearer must read and understand the User Instructions provided as a part of the product packaging. A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Misuse may result in sickness or death. For proper use, see package instructions, supervisor, or call 3M OH&ESD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.

3M Worldwide, World Class

3M develops, manufactures and markets over 50,000 different consumer, commercial, industrial and health care products. We have manufacturing operations in 60 countries and do business in more than 200 countries. 3M can help you achieve corporate goals, meet and exceed government standards, simplify and improve the lives of your employees, and contribute to a safe, healthy and sustainable work environment.

For More Information

Technical Assistance in US 1-800-243-4630
Technical Assistance in Canada 1-800-267-4414
www.3M.com/PPESafety or m.3M.com/PPESafety.

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