3M™ Reusable Respirators

Comfort, Trust, Versatility
Respirators for Your Workplace
The lightweight Ultimate FX FF-400 was developed to provide maximum comfort and durability with unique features that make it the optimal choice for a variety of industrial applications:

**Large Lens Featuring Scotchgard™ Protector**
- Paint and stain-resistant lens—3M's exclusive Scotchgard™ coating causes some paints and stains to bead up on the surface so they can be wiped off easily
- Helps lens stay clearer during some spray applications
- Provides a wide field of view

**Easy to Use**
- Respirator attachments twist on and off easily for quick assembly and disassembly

**Passive Speaking Diaphragm**
- Optimal positioning for clearer and easier communications

**Durable, Long-lasting Head Harness**
- Features a six-strap configuration for a secure fit
- Harness straps pulled over one million times in development durability testing

**Comfort Cradle**
- Positions the respirator more comfortably on the head

**Soft, Silicone Nose Cup and Faceseal**
- Engineered for maximum durability, comfort and resilience
- Three sizes help the respirator fit a broad range of face shapes and sizes

**Bonded Silicone Gaskets**
- Eliminates loose gaskets that can be lost

**Cool Flow™ Valve**
- Allows for easier breathing
- Reduces heat and moisture buildup for cool, dry comfort

**3M Reusable Respirators Technology Innovations Over the Years**

- **1977**: 3M offers the first reusable "Maintenance-Free" Half Facepiece Respirator
- **1987**: 3M develops and incorporates a new integral filter technology in its 4000 Series Facepiece, creating a lighter weight respirator
- **1989**: 3M develops first disc filters with loaded web filter media—the first non-woven, non-fiberglass filters
- **1991**: 3M designs and develops the "bayonet-style" cartridge connection
- **1992**: 3M develops and incorporates a new integral filter technology in its 4000 Series Facepiece, creating a lighter weight respirator
- **1996**: 3M launches its 6000 Series Full Facepiece Respirator offering best-in-class field of view and lightweight characteristics

### 3M™ Ultimate FX Full Facepiece Reusable Respirator FF-400 Series
Comfortable, durable protection for demanding, X-treme conditions
3M™ Full Facepiece Reusable Respirator 6000 Series

Reliable, convenient, compatible protection

- Unique center adapter directs exhaled breath and moisture downward, and helps reduce debris from depositing in the valve. Smooth surface allows for quick and easy cleaning
- Large lens provides wide field of view and excellent visibility
- 3M™ Cool Flow™ Valve helps provide cool, dry comfort
- Meets requirements of ANSI Z87.1-2010 for high impact (Z87+)
- Lightweight, well-balanced design with silicone face seal for enhanced comfort and durability
- Available in air purifying respirator (APR), supplied air and powered air purifying respirator (PAPR) modes

3M™ Full Facepiece Reusable Respirator 7800S Series

Designed for durability and protection

- Silicone facepiece enhances fit and improves durability
- Double-flange face seal and six adjustable straps help provide a secure fit
- Can be used with a passive or electronic clip-on welding lens
- Available in air purifying respirator (APR), supplied air and powered air purifying respirator (PAPR) modes
- FR-7800B (First Responder) version available
  - Butyl rubber seal to minimize permeation
  - CBRN approved with FR-15-CBRN

2002
- 3M develops first rectangular filter with unique seal-check capabilities
- 3M introduces Cool Flow™ Valve for reduced heat and moisture in the 7500 Half Facepiece Respirator

2007
- 3M develops first HF P100 nuisance OV filter. Offers lowest breathing resistance on the market

2009
- 3M develops easier breathing, longer lasting 2000 Series disc filters

2010
- 3M develops first Full Facepiece Respirator with Scotchgard™ coating, overmolded gaskets, and comfort head cradle

2013
- 3M introduces the 6500 Half Facepiece Respirator, our lightest silicone half facepiece
**3M™ Half Facepiece Reusable Respirator 7500 Series**

**Easy breathing, comfort and durability**

- **Soft Seal Design**
  - Advanced silicone material provides a softer feel on the face
  - Unique adjustment design helps reduce tension and pressure points on the face for unsurpassed comfort

- **Adjustable Head Cradle**
  - Allows wearer to adjust for optimum fit and comfort

- **Cool Flow™ Valve**
  - Valve design helps make breathing easier
  - Helps reduce heat and moisture buildup for cool, dry comfort

- **Unique Exhalation Valve Cover**
  - Directs exhaled breath and moisture downward
  - Smooth surface allows for quick and easy cleaning
  - Helps reduce debris from depositing in valve area

- **3M™ Rugged Comfort Half Facepiece Reusable Respirator 6500 Series**

  **Rugged comfort, durability, and slim profile design**

  - **Adjustable Head Harness Assembly**
    - Optimum fit and comfort with three-size adjustable head cradle
    - Long-lasting polyester/spandex straps

  - **3M™ Bayonet Connection**
    - Compatible with all 3M™ bayonet-style cartridges and filters

  - **Quick Latch Drop-Down Mechanism***
    - Easy on and off as you move in and out of contaminated areas
    - No need to remove your hard hat or faceshield when lowering or raising your respirator

  - **Silicone Faceseal**
    - Provides comfort and stability with a soft but firm faceseal
    - Extended product life due to resilient silicone material
    - Our lightest silicone facepiece
    - Keeps its shape in high-heat environments

  - **Cool Flow™ Valve**
    - Enhanced comfort by reducing heat and moisture
    - Easier breathing with unique valve design

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*Available on models 6501QL, 6502QL and 6503QL.
3M™ Half Facepiece
Reusable Respirator 6000 Series

Compatible, convenient respiratory protection

- Facepiece is made from soft, lightweight material
- Available with a standard or drop-down head harness option. Drop-down model allows wearers to lower the respirator without removing hard hat or faceshield
- Head harness assembly and spare parts are available

3M™ Half Facepiece
Disposable Respirator 5000 Series

Balanced design, disposable convenience

- Easy to use and convenient
- Pre-assembled with permanently attached cartridges; no maintenance necessary
- Facepiece is made from soft, lightweight material
- Ideally suited for:
  - Intermittent respirator use
  - Plant shutdowns and turnarounds
  - Dirty applications where respirators wear out or become difficult to clean in a short time
Identify the Hazards

<table>
<thead>
<tr>
<th>Applications and Industries</th>
<th>Potential Hazards</th>
<th>Cartridge/Filter Options*</th>
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</thead>
<tbody>
<tr>
<td>Spray Painting, Varnishing, Staining &amp; Coating</td>
<td>Solvent-based</td>
<td>OV/P95</td>
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<td>Water-based Latex</td>
<td>Nuisance OV**/P95</td>
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<td>Sanding &amp; Grinding</td>
<td>Particulate</td>
<td>N95</td>
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<td>Welding</td>
<td>Weld Fume</td>
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<td>Stainless Steel &amp; Galvanized</td>
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<td>Abatement</td>
<td>Lead &amp; Asbestos</td>
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<td>Mold</td>
<td>N95 - P100/ Nuisance OV**</td>
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<td>Cement Work</td>
<td>Silica/Dust</td>
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<td>Cleaning &amp; Janitorial</td>
<td>Bleach</td>
<td>AG/P95</td>
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<td>Pesticides &amp; Insecticides</td>
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<td>Ammonia</td>
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*Respirator facepiece or system must be chosen based on the contaminant, airborne concentration and the necessary assigned protection factor.

**Nuisance level refers to concentrations below the Occupational Exposure Limit (OEL) or other applicable government regulations, whichever is lower.

If you are uncertain of the concentration levels of contaminants or recommended levels of respiratory protection, contact the 3M Technical Service Helpline at 1-800-243-4630.

This guide is only an outline. It should not be used as the only means for selecting a respirator. Details regarding performance and limitations are set out on the respirator package and User Instructions.

Before using any of these respirators, the wearer must read and understand the User Instructions for each product.

Select the Right Respirator

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<thead>
<tr>
<th>5000</th>
<th>6000 HF</th>
<th>6500</th>
<th>7500</th>
<th>6000 FF</th>
<th>FF-400</th>
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<td>Clip-on Welding Shield</td>
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*6000DD Version.
**6500QL Version.
Find a Combination that Works Best for You

6000 Series

6500 Series

7500 Series

6000 Series

Ultimate FX FF-400

7800 Series

Particulate Protection

Gas and Vapor Protection

Combines Particulate and Gas and Vapor Protection

Dual Airline Supplied Air Respirator

Face-mounted PAPR† (available for 6000 FF only)

Belt-mounted PAPR†

For all 6000, 7000 and FF-400 Series Respirators

For 6000 and 7000* Series Full Facepiece Respirators

*Powered Air Purifying Respirator
†Belt-mounted PAPR only
3M™ Particulate Filters and Gas/Vapor Cartridges

All 3M Particulate Filters and Gas/Vapor Cartridges can be used interchangeably with 3M™ Reusable Respirators 6000, 6500, 7000 and FF-400 Series.

**3M™ Particulate Filters 2000 Series**
- Lightweight and easy to breathe through
- Assortment of filters available for a wide range of applications
- Easier breathing through new 3-layer advanced Electret Filter Media in 2200 Series Filters

**Part Number** | **Description**
--- | ---
2071 | Particulate Filter, P95
2078 | Particulate Filter, P95, with Nuisance Level Acid Gas Relief*
2091 | Particulate Filter, P100
2096 | Particulate Filter, P100, with Nuisance Level Acid Gas Relief*
2097 | Particulate Filter, P100, with Nuisance Level Organic Vapor Relief*
2291 | Advanced Particulate Filter, P100
2296 | Advanced Particulate Filter, P100, with Nuisance Level Acid Gas Relief*
2297 | Advanced Particulate Filter, P100, with Nuisance Level Organic Vapor Relief*

**3M™ Gas/Vapor Cartridges 6000 Series**
- Low-profile design helps maintain good field of vision
- Full range of cartridges to meet your needs

**Part Number** | **Description**
--- | ---
6001 | Cartridge, Organic Vapor
6002 | Cartridge, Acid Gas**
6003 | Cartridge, Organic Vapor/Acid Gas**
6004 | Cartridge, Ammonia/Methylamine
6005 | Cartridge, Formaldehyde/Organic Vapor
6006 | Cartridge, Multi Gas/Vapor**
6009 | Cartridge, Mercury Vapor or Chlorine

**3M™ Combination Cartridges/P100 Particulate Filters 6000 Series**
- Particulate filter is permanently attached to cartridge for easy, one-step assembly
- Unique design for enhanced comfort and visibility

**Part Number** | **Description**
--- | ---
60921 | Cartridge/Filter, Organic Vapor/P100
60922 | Cartridge/Filter, Acid Gas/P100**
60923 | Cartridge/Filter, Organic Vapor/Acid Gas/P100**
60924 | Cartridge/Filter, Ammonia/Methylamine/P100
60925 | Cartridge/Filter, Formaldehyde/Organic Vapor/P100
60926 | Cartridge/Filter, Multi-Gas/Vapor/P100**
60928 | Cartridge/Filter, Organic Vapor/Acid Gas/P100**
60929 | Cartridge/Filter, Mercury Vapor/Chlorine Gas/P100

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For More Information
In the United States, contact:
- Technical Service: 1-800-243-4630
- Customer Service: 1-800-328-1667
- Internet: www.3M.com/PPESafety

In Canada, contact:
- Technical Service: 1-800-267-4414
- 3M Canada Customer Care: 1-800-364-3577
- Internet: www.3M.ca/safety

For other 3M products:
- Technical Service: 1-800-3M-HELPs

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**3M™ Particulate Filter 7093, P100**
- Unique, spring-loaded filter cover design simplifies negative pressure user seal checks
- Swept-back design provides enhanced field of view and greater comfort
- 7093C offers a lightweight, low profile design that combines P100 filtration with carbon-loaded features found in heavier combination cartridge products

**Part Number** | **Description**
--- | ---
7093 | Particulate Filter, P100
7093B | Particulate Filter, P100, Bulk
7093C | Cartridge/Filter, Hydrofluoric Acid, P100 with Nuisance Level Organic Vapor and Acid Gas Relief*

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**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. All respirator instructions, warnings and use and time limitations must also be read and understood by the wearer before use. 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 and fit testing.

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**WARNING**

These respirators help protect against certain airborne contaminants. Misuse may result in sickness or death. For proper use, the wearer must read and understand these warnings. Instructions provided as a part of product packaging, see supervisor or call 3M PSD Technical Service, 1-800-243-4630. Time use limitations may apply. Important — Before using these respirators, you must determine the following:
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