Today’s safety products not only need to work harder, but they also need to work smarter. Whether it’s your repair shop or your role within it, protecting technicians’ health helps protect your business — when they aren’t working, your shop’s productivity and profitability goes down. 3M’s expanded safety solution portfolio can help you:

- Protect workers — your most valuable resource!
- Prevent injuries
- Keep workers on the job and maintain productivity

So look to the brands you trust to keep you and your team safe today, and they can help you feel more secure about business tomorrow.
We believe that health and safety is first and foremost about safeguarding worker welfare. A secure, safe working environment is paramount in any business. But we also believe that improving worker protection, comfort, product durability and productivity is a more ambitious goal — one we firmly believe in.

The health and safety of your workforce depends on your choices, and we don’t take that for granted. By working in association with skilled safety practitioners, partners and customers, we are committed to helping you create an environment that protects your workforce — effectively, efficiently and economically.

**Better.**
Products that help workers become more efficient.

**Faster.**
Solutions that are easy to use.

**Now that’s Smarter.**
3M Respiratory Solutions

3M offers multiple respiratory protection choices to help reduce the risk of exposure to potentially harmful particulates, vapors and gases. These options include tight-fitting as well as loose fitting supplied air respiratory protection options. When working conditions require the use of a tight-fitting respirator, regulations dictate that all employers must ensure employees have the correct protection and fit. Supplied air options are shown in the matrices.

The selection of N, R and P filters depends on whether there are oil particles in the workplace.

- **N filter** - not oil resistant filter.
- **R filter** - oil resistant filter for up to 8 hours.
- **P filter** - oil proof filter for up to 40 hours.

Working on vehicles means grinding, sanding and spraying, potentially sending tiny particles into the air. 3M™ Respirators are a safety solution to help reduce worker exposure to these potential hazards. Taking care of your technician’s health protects your business, and helps maintain shop productivity.

Respirators must be properly selected based on the contaminant and the concentration levels to which the worker is exposed.
# 3M™ Respirators

## Sanding, Grinding, Sweeping, Buffing

3M™ Particulate Respirators help provide protection against dusts and other particulates. The 3M™ Cool Flow™ Valve, available on some models, may relieve moisture buildup in hot and humid conditions.

Application of body fillers, which may contain styrene or other organic vapors, potentially require use of an organic vapor cartridge such as the 3M™ Organic Vapor (OV) Cartridge 07046.

Use the selector below to help identify which respirator may be preferred for increased worker comfort*. Typically these operations do not produce an oil mist.

---

<table>
<thead>
<tr>
<th>Sanding, Grinding, Sweeping, Buffing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do the activities described generate particles only, or are you applying body filler containing styrene or other organic vapor?</td>
</tr>
</tbody>
</table>

### Particles only

- **No**
  - Is the environment **hot and humid** or is additional worker comfort desired?
    - **No**
      - 07048
        - 8210
          - N95
          - Individually packaged
    - **Yes**
      - 37021
        - 9210
          - N95
          - Individually packaged

### Applying body filler, often containing styrene

- **No**
  - **Yes**
    - Is an individually packaged product desired?
      - **Yes**
        - 37022 or 9211+9211
          - N95
          - Cool Flow™ Valve
          - Individually packaged
      - **No**
        - 07185
          - 8511
            - N95
            - Cool Flow™ Valve
          - 07046
            - OV cartridge
            - 07194
              - Prefilter
            - 07054
              - Filter retainer

---

*In all cases, before selection of the most appropriate Personal Protection Equipment (PPE), a risk assessment must be carried out. The half facepiece respirators shown may be used for up to 10X the Occupational Exposure Limit (OEL) when used as part of an effective OSHA respiratory protection program. See important product warnings on the last page.
3M™ Respirators

Welding

3M™ Welding Respirators are designed for applications such as welding, soldering, and other operations involving metal fumes including those with ozone* and nuisance levels of organic vapors**. Use the selector below to identify which respirator may be preferred for increased worker comfort. Respirator options where welding fume is a concern:

- **Non-oil**
  - N-Series Respirators
  - **Is ozone** or nuisance level** organic vapor relief preferred?**
  - **No**
    - 07189
    - 8515
    - N95
    - Welding Respirator
    - Cool Flow™ Valve
    - Welding Web
  - **Yes**
    - 07187
    - 8214
    - N95
    - Welding Respirator
    - Cool Flow™ Valve
    - Welding Web
    - Inner Faceseal with ozone* and nuisance level** organic vapor (OV) relief

- P-Series Respirators
  - 3M™ Bodyman Pack
    - Half Facepiece – 600 Series
    - with P100 filter*
    - 07182 (M)
    - 07183 (L)
  - 3M™ Rugged Comfort Half Facepiece –
    - 6500 Series Reusable Respirator
    - 49487 (S)
    - 49489 (M)
    - 49491 (L)
    - 49488 (S) Quick Latch
    - 49490 (M) Quick Latch
    - 49492 (L) Quick Latch

- Oil

The half facepiece respirators shown may be used for up to 10X the Occupational Exposure Limit (OEL) when used as part of an effective OSHA respiratory protection program.

**3M™ Bodyman and Mechanic Half Facepiece Respirator Pack P100**

Half facepiece respirators may be used for up to 10X the Occupational Exposure Limit (OEL).

- Reusable design – replaceable filters
- 3M recommended for grinding, sanding, welding and brake and clutch repair applications
- Activated carbon layer removes ozone* and nuisance level** organic vapors and odors
- At least 99.97% filtration efficiency against solid and liquid particles including oil aerosols
- Packout includes: 1 half facepiece respirator and 2 pairs P100 filters (07184)

**Replacement Filters**

- **3M™ Particulate Filter 07184 (2097), P100 with Nuisance Level** Organic Vapor Relief
  - NIOSH approved for environments containing certain oil and non-oil based particles. 3M recommended for nuisance level** relief against organic vapors, and ozone protection up to 10 times the Occupational Exposure Limit (OEL).
  - Not NIOSH certified for use against ozone.

- **3M™ Advanced Particulate Filter 2297-P100** with Nuisance Level** Organic Vapor Relief
  - All the same protection as the 07184, with the benefits of easier breathing, and enhanced durability and longer service life. Efficiently captures particles in three layers of advanced electret filter media compared to five layers in traditional filters, therefore permitting easier breathing.

In all cases, before selection of the most appropriate Personal Protection Equipment (PPE), a risk assessment must be carried out.

*3M recommended for ozone protection up to 10X the Occupational Exposure Limit (OEL). Not NIOSH approved for ozone.

**Nuisance level organic vapor refers to contaminations not exceeding applicable government occupational exposure limit.

See important product warnings on the last page.
Selection Charts

Undercoating, Rustproofing, Brake and Clutch Work

The following respirators incorporate a layer of activated carbon in the filter web which may help remove the nuisance* odors associated with these applications.

These operations usually take place in an oily environment. Use the selector below to identify which respirator may be preferred for increased worker comfort.

In all cases, before selection of the most appropriate Personal Protection Equipment (PPE), a risk assessment must be carried out.

---

*3M recommended for relief against nuisance level organic vapor (OV). Nuisance level organic vapor refers to concentrations not exceeding applicable government occupational exposure limits.

**All faceshields must be worn with safety glass or safety goggles.

See important product warnings on the last page.
Paint Spray Operations

Workers who perform paint spray operations know that using proper respiratory protection when there is a potential overexposure to paint mists and vapors is critical.

Experience 3M Innovation in Respiratory Protection

3M™ Ultimate FX Full Facepiece Respirator FF-400

The only respirator with 3M’s unique Scotchgard™ Protector, which helps the lens resist dirt, paint and stains, and makes it easier to clean.

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

Durable, Long-lasting Head Harness
- Features a six-strap configuration
- Harness straps pulled over one million times in durability testing
- New adjustment buckle for fit

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

Low Profile Bayonet Design
- Helps improve balance and provides better weight distribution
- For tight work environments

Speaking Diaphragm Exhalation Valve Cover
- The standard exhalation valve cover allows for communication clarity

Patented 3M™ Cool Flow™ Exhalation Valve
- Allows for easier breathing
- Reduces heat and moisture buildup for cool, dry comfort

See important product warnings on the last page.
3M™ Respirators

Work Safely with Convenience

Workers who perform paint spray operations know that using proper respiratory protection is critical.

3M™ Premium Spray Paint Respirator Pack, P95 – 7500 Series

- 3M™ Cool Flow™ Exhalation Valve helps make breathing easier
- The advanced material provides a softer feel on the face
- Drop-down capability
- Available in small, medium and large

Contains:

- 1 Premium Respirator small, medium or large
- 1 pair Organic Vapor (OV) cartridges 07046
- 2 pairs Filter 07194 P95
- 1 pair Retainers 07054

3M™ Spray Paint Respirator Pack, P95 – 6000 Series

- Low maintenance and lightweight
- Available in small, medium and large

Contains:

- 1 Spray Paint Respirator small, medium or large
- 1 pair Organic Vapor (OV) cartridges 07046
- 2 pairs Filter 07194 P95
- 1 pair Retainers 07054

3M™ Full Facepiece Spray Painting Pack, P95 – 6000 Series

- Provides eye and face protection
- Offers a wide field of vision
- Available in medium and large

Contains:

- 1 Full Facepiece Spray Paint Respirator medium or large
- 1 pair Retainers 07054
- 1 pair Organic Vapor (OV) cartridges 07046
- 1 pair Faceshield Covers 07142
- 2 pairs Filter 07194 P95

3M™ Dual Cartridge Respirator Assembly, Organic Vapor/P95 – 5000 Series

- Designed to be disposable with the permanently attached cartridges
- Available in small, medium and large

Contains:

- 1 pair Organic Vapor (OV) cartridges 07046
- 2 pairs Filter 07194 P95

See important product warnings on the last page.
3M™ Tight-Fitting Facepiece Respirator Options

Features/Benefits
Back-mounted Dual Airline breathing tube
- Delivers air to both sides of the facepiece for added comfort
- The 'combination' dual airline system provides positive and negative pressure capability in one respirator assembly

Tight-Fitting Facepieces:
- Allow a clear field of vision and an obstruction-free work zone

* The use of a calibration kit is also required, see part numbers 529-04-48 (Large) or part number 529-04-49 (Small).

In all cases, before selection of the most appropriate Personal Protection Equipment (PPE), a risk assessment must be carried out. See important product warnings on the last page.
3M™ Respirators

3M™ High and Low Pressure Systems

Premium Suspension

37326
Comfort Faceseal

37314 Respiratory Faceshield – M-206
ANSI Z87.1-2010 Eye/Face protection

37322
Peel Off Visor Cover

3M Breathing Tubes with
3M Quick Release Swivel (QRS) Connection

37309
Small/Medium

37310
Medium/Large

The QRS connects quickly to the headgear and swivels to minimize loops and kinks in the breathing tube.

*One AAD V-199 Adapter is included with each B-20 Breathing Tube

AAD V-199* Adapter or 37069

V-Series Supplied Air Valves

37018 or V-100
Cooling Assembly

37019 or V-300
Air Regulating Valve

37020 or V-400
Low Pressure Connector

High Pressure

Low Pressure

25 ft. – 07010 or W-9435-25
50 ft. – 07011 or W-9435-50
100 ft. – 07012 or W-9435-100
3/8" High Pressure Hose

50 ft. – 07034 or W-3020-50
100 ft. – 07035 or W-3020-100
1/2" Low Pressure Hose

3M™ Portable Compressed Air Filter and Regulator Panel 256-02-01
100 cfm, 8 outlets, with Carbon Monoxide Monitor

W-2806 (50 cfm) without CO Monitor 07006

Note:
Airline connection requirements for Low Pressure S-Series Hoods: 07034 and 07035: can only be used in single lengths of 50, or 100 feet. No connections are allowed.

Airline connection requirements for High Pressure S-Series Hoods: 07011 and 07012: combine up to three hoses (25, 50 or 100 feet) in any combination not to exceed 300 feet.

Note:
Airline connection requirements for Low Pressure M-Series headtops: 07034 and 07035: can only be used in single lengths of 50, or 100 feet. No connections are allowed.

Airline connection requirements for High Pressure M-Series headtops: 07011 and 07012: combine up to three hoses (25, 50 or 100 feet) in any combination not to exceed 300 feet.

37335 GVP-PSK2
A complete PAPR solution for painters. Includes a GVP-CB PAPR Assembly (including battery, comfort belt and charger), a GVP-441 OV/HE Filter with GVP-119 Shower Cover, a BT-20L Breathing Tube with BT-922, Breathing Tube Cover and a M-101 Respiratory Faceshield with a M-925 Visor, M-936 Comfort Faceseal and M-170 Faceshield Head Inserts.

In all cases, before selection of the most appropriate Personal Protection Equipment (PPE), a risk assessment must be carried out. See important product warnings on the last page.
3M™ Supplied Air Respirators

**Facepieces**
- 7800S-S**
- 7800S-M**
- 7800S-L**
  - Full Facepiece

**Adapter Kits**
- Back-Mounted Adapter Kits
  - SA-2000 (High Pressure)
  - SA-2000LP (Low Pressure)
- Front-Mounted Adapter Kits
  - SA-1000 (High Pressure)
  - SA-1000LP (Low Pressure)
- Combination Back-Mounted Adapter Kits
  - SA-2100 (High Pressure)
  - SA-2100LP (Low Pressure)

**Supplied Air Hose**
- W-9435
  - ¾" High Pressure Hose
  - (25, 50, or 100 ft.)
    - 25 ft. 07010
    - 50 ft. 07011
    - 100 ft. 07012
- W-2929
  - ¾" High Pressure Hose
  - (25, 50, or 100 ft.)
    - 25 ft. W-2929-25
    - 50 ft. W-2929-50
    - 100 ft. W-2929-100
- W-3020
  - ½" Low Pressure Hose
  - (25, 50, or 100 ft.)
    - 25 ft. 07033
    - 50 ft. 07034
    - 100 ft. 07035

**Air Purification Panels**
- 256-02-00***
  - (50 cfm) with CO Filtration and Monitor
- 256-02-01***
  - (100 cfm) with CO Monitor
- W-2806
  - (50 cfm) without CO Monitor
  - 07006

Note: Headgear, breathing tube, air control valve, and compressed air supply hose are required parts in a NIOSH-approved system. Any NIOSH certification appearing on 3M components is strictly limited to use in an approved air system and only in full accordance with the specifications and limitations under said approval. NIOSH certifies complete assemblies only, not sub-assemblies.

In all cases, before selection of the most appropriate Personal Protection Equipment (PPE), a risk assessment must be carried out.

3M Automotive Aftermarket Division (AAD) product numbers are found in blue type on select products.

*It is the employer’s responsibility to ensure that the compressed air used with any supplied air system meets the requirements for at least Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1 in the U.S. as specified in the Occupational Safety and Health (OSHA) Respiratory Protection standard 1910.134(i)(ii). In Canada, refer to CSA Standard Z180.1 table for the quality of compressed breathing air.

**Clip-on 3M™ Welding Shield also available.

***The use of a calibration kit is also required, see part numbers 529-04-48 (Large) or part number 529-04-49 (Small).

See important product warnings on the last page.
Maximum Air Panel Capacity

Minimum of 100 PSI inlet air pressure is required to achieve the support for the number of users shown. If inlet air pressure is below 100 PSI, then fewer workers will be able to be supported.

256-02-00***
(50 cfm) with CO Filtration and Monitor

OR

W-2806
(50 cfm) without CO Monitor

OR

256-02-01***
(100 cfm) with CO Monitor

Loose Fitting

OR

Tight-Fitting

Cooling or Heating

Standard

Dual-Airline

See important product warnings on the last page.
# 3M™ Respirator Selection Guide

**3M™ Half and Full Facepiece Respirators**

<table>
<thead>
<tr>
<th>Cartridge Type</th>
<th>Color Code</th>
<th>NIOSH Approved for:</th>
<th>Permanent Cartridges</th>
<th>Replaceable Cartridges</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>OV Organic Vapor</td>
<td></td>
<td>Certain Organic Vapors</td>
<td>5101 Small 5201 Medium 5301 Large</td>
<td>6001 (07046) 6001i</td>
<td>New! with 3M™ Service Life Indicator³</td>
</tr>
<tr>
<td>OV/P95 Organic Vapor/P95</td>
<td></td>
<td>Certain Organic Vapors and Particulates</td>
<td>517P71 Small 527P71 Medium 537P71 Large</td>
<td>60921 6092il</td>
<td>New! with 3M™ Service Life Indicator³</td>
</tr>
<tr>
<td>OV/P100 Organic Vapor/P100</td>
<td></td>
<td>Certain Organic Vapors and Particulates</td>
<td>60921 6092il</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AG Acid Gas</td>
<td></td>
<td>Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Chlorine Dioxide or Hydrogen Sulfide</td>
<td>6002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AG/P100 Acid Gas/P100</td>
<td></td>
<td>Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Chlorine Dioxide or Hydrogen Sulfide</td>
<td>6002</td>
<td></td>
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<tr>
<td>OV/AG Organic Vapor/ Acid Gas</td>
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<td>Certain Organic Vapors, Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Hydrogen Sulfide or Hydrogen Fluoride</td>
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<tr>
<td>OV/AG/P100 Organic Vapor/ Acid Gas/ P100</td>
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<td>Certain Organic Vapors, Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Hydrogen Sulfide or Hydrogen Fluoride</td>
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<td></td>
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<tr>
<td>AM/MA Ammonia/ Methylamine</td>
<td></td>
<td>Ammonia and Methylamine</td>
<td>6004</td>
<td></td>
<td></td>
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<tr>
<td>AM/MA/P100 Ammonia/ Methylamine/P100</td>
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<td>Ammonia and Methylamine and Particulates</td>
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<tr>
<td>FM/OV Formaldehyde/ Organic Vapor</td>
<td></td>
<td>Formaldehyde¹/Certain Organic Vapors</td>
<td>6005</td>
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<tr>
<td>FM/OV/P100 Formaldehyde/ Organic Vapor/P100</td>
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<td>Formaldehyde¹ and Certain Organic Vapors and Particulates</td>
<td>60925</td>
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<tr>
<td>MG Multi-Gas/Vapor</td>
<td></td>
<td>Certain Organic Vapors, Chlorine, Hydrogen Chloride, Chlorine Dioxide, Sulfur Dioxide, Hydrogen Sulfide, Ammonia/ Methylamine, Formaldehyde¹ or Hydrogen Fluoride</td>
<td>60926</td>
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<tr>
<td>MG/P100 Multi-Gas/Vapor/ P100</td>
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<td>Certain Organic Vapors, Chlorine, Hydrogen Chloride, Chlorine Dioxide, Sulfur Dioxide, Hydrogen Sulfide, Ammonia/ Methylamine, Formaldehyde¹ or Hydrogen Fluoride</td>
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<tr>
<td>OV/AG/P100 Organic Vapor/ Acid Gas/ P100</td>
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<td>Certain Organic Vapors, Chlorine, Hydrogen Chloride, and Sulfur Dioxide or Hydrogen Sulfide or Hydrogen Fluoride and Particulates²</td>
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<tr>
<td>HG Mercury</td>
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<td>Mercury Vapor, Chlorine and Sulfur Dioxide</td>
<td>60929S</td>
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<tr>
<td>HG/P100 Mercury/P100</td>
<td></td>
<td>Mercury Vapor, Chlorine, Sulfur Dioxide and Certain Particulates</td>
<td>60929S</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Nuisance level refers to concentrations not exceeding the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

¹ OSHA regulations require gas proof goggles be worn with half facepiece respirators when used against formaldehyde.

² 3M recommended for use against methylbromide or radioiodine up to 5 ppm with daily cartridge replacement.

³ See User Instructions or visit 3M.com/servicelifeindicator to determine if the 6000i indicator is appropriate for your work environment. See important product warnings on the last page.

* Nuisance level refers to concentrations not exceeding the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

* OSHA regulations require gas proof goggles be worn with half facepiece respirators when used against formaldehyde.

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* See User Instructions or visit 3M.com/servicelifeindicator to determine if the 6000i indicator is appropriate for your work environment.
### 3M™ Respirator Selection Guide (Continued)

#### 3M™ Half and Full Facepiece Respirators

<table>
<thead>
<tr>
<th>Filters</th>
<th>Color Code</th>
<th>NIOSH Approved for:</th>
<th>Permanent Cartridges</th>
<th>Replaceable Cartridges</th>
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<tbody>
<tr>
<td>P95</td>
<td>Particulates</td>
<td></td>
<td></td>
<td>2071</td>
</tr>
<tr>
<td>P95 HF with nuisance level Acid Gas*</td>
<td>Hydrogen Fluoride and Particulates</td>
<td></td>
<td>2076HF</td>
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<tr>
<td>P95 with nuisance level Organic Vapor/Acid Gas*</td>
<td>Particulates</td>
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<td>2078</td>
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<tr>
<td>P100</td>
<td>Particulates</td>
<td></td>
<td>2091 (07000)</td>
<td>2291</td>
</tr>
<tr>
<td>P100 with nuisance level Acid Gas*</td>
<td>Particulates</td>
<td></td>
<td>2096</td>
<td>2296</td>
</tr>
<tr>
<td>P100 with nuisance level Organic Vapor*</td>
<td>Particulates</td>
<td></td>
<td>2097 (07184)</td>
<td>2297</td>
</tr>
<tr>
<td>P100 with hydrogen fluoride, nuisance level organic vapor and acid gas relief*</td>
<td>Cartridge/Filter</td>
<td></td>
<td>7093C (37173)</td>
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</tbody>
</table>

#### Prefilters for Cartridges

<table>
<thead>
<tr>
<th>Filters</th>
<th>Color Code</th>
<th>NIOSH Approved for:</th>
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</thead>
<tbody>
<tr>
<td>N95</td>
<td>Non-Oil Particulates</td>
<td>5N11</td>
</tr>
<tr>
<td>P95</td>
<td>Particulates</td>
<td>5P71 (07194)</td>
</tr>
<tr>
<td>P100</td>
<td>Particulates</td>
<td>2091 (07000)</td>
</tr>
</tbody>
</table>

#### Retainers/Adapters

- 501 (07054) For use with 5N11 and 5P71 Filters
- 502 For use with 2000 Series and 7093 Filters
- 603 Use with 5N11 or SP71 Filters and 501 Filter Retainer

#### Monitors for Sampling & Analysis

- Organic Vapor Monitors: 3500 (37023), 3500B, 3510*, 3520, 3530†
- Ethylene Oxide Monitors: 3550*, 3551, 3551B
- Formaldehyde Monitors: 3720*, 3721, 3721B

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* Nuisance level refers to concentrations not exceeding the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

† OSHA regulations require gas proof goggles be worn with half facepiece respirators when used against formaldehyde.

* 3M recommended for use against methylbromide or radiiodine up to 5 ppm with daily cartridge replacement.

* See User Instructions or visit 3M.com/servicelifeindicator to learn more about the 6000i Series.

See important product warnings on the last page.
**3M™ Hearing Protection Solutions**

**OSHA Requirements 29 CFR 1910.95 Occupational Noise Exposure***

**Noise Monitoring Highlights:**
- Employers must monitor noise exposures of workers
- Both area noise monitoring and personal noise monitoring (dosimetry) may be used
- If time-weighted-average (TWA) exposure of workers is 85 dBA or higher, employers must implement a hearing conservation program

**Permissible Exposure Limit (PEL)**
- The 8-hour TWA noise exposure of workers cannot exceed 90 dBA
- Higher noise exposures are allowed for shorter exposure times
  - PEL for 4 hour exposures is 95 dBA
  - PEL for 2 hour exposures is 100 dBA

**Hearing Protection**
- Hearing protection must be made available to all employees exposed to 8-hour TWA noise levels of 85 dBA or above and must be worn by all employees exposed to a TWA of 90 dBA and above
- Hearing protection must be provided at no cost and replaced as needed
- Employees shall be given the opportunity to select hearing protectors from a variety of suitable hearing protectors

*For more information on OSHA hearing regulations, go to OSHA.gov.*

---

*Employers should thoroughly read and understand these and all applicable regulations prior to selection and use of personal protection equipment.*

*See important product warnings on the last page.*
3M™ Hearing Protection Solutions

Typical Sound Levels (dBA)*†

### Body Shop

- **30**: Grinder, hand 4" (metal products)
- **60**: Compressor, air, bleeding air
- **70**: Compressor, air, running
- **80**: Floor lift, pneumatic, raising vehicle
- **90**: Air, compressed, filling tires
- **100**: Truck tire, large, air release at half pressure
- **110**: Impact wrench, removing lug nuts
- **120**: Wrench, impact, removing lug nuts
- **130**: Truck tire, large, air release at full pressure
- **140**: Impact wrench, removing lug nuts

### Mechanical Service

- **30**: Air chisel on auto body metal
- **40**: Compressed air blowdown
- **50**: Grinder, electric
- **60**: Air chisel on auto body metal
- **70**: Compressed air blowdown
- **80**: Grinder, air
- **90**: Air, compressed, blowing air through nozzle
- **100**: Tire removing machine, removing tire bead
- **110**: Wrench, impact, fitting lug nuts
- **120**: Air chisel on auto body metal
- **130**: Compressed air blowdown
- **140**: Wrench, impact

### Welding

- **30**: Air, compressed, bleeding air
- **40**: Compressed air blowdown
- **50**: Oxyfuel welding and cutting
- **60**: Welding arc, CO₂
- **70**: Plasma arc cutting machine
- **80**: Oxyfuel welding and cutting
- **90**: Welding, slag chipping
- **100**: Stud welder
- **110**: Welding, inert gas - metal arc
- **120**: Plasma arc cutting machine
- **130**: Torch, oxygen
- **140**: Welding, plasma cutting

---

*Hearing protector selection should be based upon individual exposure assessment.
†3M Noise Navigator™ Sound Level Database, 3M.com/Hearing
See important product warnings on the last page.
Select a Hearing Protector for your Application

<table>
<thead>
<tr>
<th>3M™ Hearing Protection (Many other products available)</th>
<th>Product Number</th>
<th>Typical Noise Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M™ PELTOR™ Optime™ 101 Earmuff (NRR 27 dB*) with 3M™ E-A-R-soft Yellow Neons Uncorded Earplugs (NRR 33 dB*)</td>
<td>H7A with 312-1250</td>
<td>&lt;105 dBA</td>
</tr>
<tr>
<td>3M™ PELTOR™ Optime™ 95 Earmuff Behind-The-Head (NRR 21 dB*) with 3M™ E-A-R™ Classic Earplug (NRR 29 dB*)</td>
<td>H6B/V with 312-1201</td>
<td>106 - 114 dBA</td>
</tr>
<tr>
<td>3M™ E-A-R™ Classic Earplug NRR 29 dB*</td>
<td>312-1201</td>
<td>106 - 114 dBA</td>
</tr>
<tr>
<td>3M™ Foam Ear Plug NRR 29 dB*</td>
<td>1100 (uncorded) 1110 (corded)</td>
<td>&lt;105 dBA</td>
</tr>
<tr>
<td>3M™ E-A-R-soft Yellow Neons Uncorded Earplugs NRR 33 dB*</td>
<td>312-1250</td>
<td>106 - 114 dBA</td>
</tr>
<tr>
<td>3M™ Push-Ins Earplugs NRR 28 dB*</td>
<td>318-1000 (uncorded) 318-1001 (corded)</td>
<td>&lt;105 dBA</td>
</tr>
<tr>
<td>E-A-R™ Skull Screws™ Corded Earplugs NRR 32 dB*</td>
<td>P1301 P1300 (uncorded)</td>
<td>106 - 114 dBA</td>
</tr>
<tr>
<td>3M™ Pistonz Earplug Uncorded NRR 29 dB*</td>
<td>P1400 P1401 (corded)</td>
<td>106 - 114 dBA</td>
</tr>
<tr>
<td>3M™ PELTOR™ Optime™ 105 Ear Muff NRR 30 dB*</td>
<td>H10A H10B (neckband)</td>
<td>106 - 114 dBA</td>
</tr>
<tr>
<td>3M™ PELTOR™ Optime™ 101 Ear Muff NRR 27 dB*</td>
<td>H7A</td>
<td>106 - 114 dBA</td>
</tr>
<tr>
<td>3M™ PELTOR™ Optime™ 95 Ear Muff Behind-The-Head NRR 21 dB*</td>
<td>H6B/V</td>
<td>106 - 114 dBA</td>
</tr>
</tbody>
</table>

CAUTION: 3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to variation in hearing protector fit, fitting skill and motivation of the user. If the NRR is used, 3M recommends that it be reduced by 50% or in accordance with applicable regulations.

See important product warnings on the last page.
More than 700,000 Americans injure their eyes at work each year. About 1 in 10 injuries require one or more missed workdays to recover from. Of the total amount of work-related injuries, 10-20% will cause temporary or permanent vision loss.*

OSHA mandates that employers provide — at no cost — eye, face and noise protection to employees exposed to hazards AND that employers ensure it be used. OSHA also has a recent directive that all inspectors are to be making sure employers are adhering to its personal protective equipment standard.

Health risks to the employees translate directly into business risks for employers. Not only does the employee suffer, but these types of injuries are very costly to the bottom line of any shop. Direct and indirect costs to the business owner can include:

- Emergency response and medical treatment
- Rising workers compensation costs
- OSHA citations and fines
- Lost time and productivity
- Reduced company competitiveness
- Replacement employee training
- Administrative costs

*Prevent Blindness America

Eye injuries can happen when you least expect them. Be prepared.

See important product warnings on the last page.
Top Picks in 3M™ Eyewear

Express a sense of style on-the-job. 3M brings the best of health and safety to the automotive aftermarket with these great safety eyewear. Not only do they encourage compliance, but they complement existing products you trust from 3M. All eyewear shown is approved to CSA Z94.3 Eye and Face Protector Standard and meets ANSI Z87.1 Standard.

3M™ VIRTUA CCS Protective Eyewear with Foam Gasket

11872 Clear Anti-Fog Lens Removable, foam lined gasket, vented
11873 Gray Anti-Fog Lens Removable, foam lined gasket, vented
11874 Indoor/Outdoor Mirrored Anti-Fog Lens Removable, foam lined gasket, vented

3M™ Light Vision™

11476-00000-10 Clear, Anti-Fog Lens, Dual LED Light
*Readers available, see page 18.

3M™ Economy Protective Eyewear

3M™ Securefit SF201AF-CA Clear Anti-Fog Lens
SF201AS-CA Clear Anti-Scratch Lens

6621 3M™ SecureFit™ Protective Eyewear SF401AF, Clear Anti-fog Lens, 20 EA/Case
66213 3M™ SecureFit™ Protective Eyewear SF410AS, Indoor/Outdoor Mirror Lens, 20 EA/Case
66212 3M™ SecureFit™ Protective Eyewear SF402AF, Gray Anti-fog Lens, 20 EA/Case

3M™ Comfort Protective Eyewear

3M™ BX 11380-00000-20 Silver/Black Frame, Clear Anti-Fog Lens

Bi-focal readers are available in some models eg. 3M™ BX Silver 11375-00000-20 Clear, Anti-Fog, +2.0 Bi-Focal Reader.

56391 3M™ Tour-Guard™ V Protective Eyewear TG01-100 Clear

Available in Readers

66513 3M™ SecureFit™ Protective Eyewear SF420AF, Clear Lens, +2.0 Diopter, 20 EA/Case
66512 3M™ SecureFit™ Protective Eyewear SF425AF, Clear Lens, +2.5 Diopter, 20 EA/Case
66514 3M™ SecureFit™ Protective Eyewear SF415AF, Clear Lens, +1.5 Diopter, 20 EA/Case

3M™ Safety Goggle

16644 3M™ Lexa™ Splash GoggleGear™
Vented channels to increase airflow, minimize fogging and keep out particulates

See important product warnings on the last page.
## 3M™ Protective Eyewear

### Why protect your eyes?
Every day, approximately 2,000 U.S. workers sustain a work-related eye injury that requires medical treatment.* Protecting employees from eye injury can be a challenge, because preventing harm requires every worker to consistently wear appropriate eye protection. Injuries occur when workers aren’t wearing eye protection or when they’re wearing the wrong eye protection for the job. Working conditions such as humidity and temperature changes cause fogging of standard eyewear, which may prompt workers to remove their eye protection in hazardous environments.

<table>
<thead>
<tr>
<th>Safety Eyewear</th>
<th>Readers</th>
<th>Hard Coat</th>
<th>Anti-Fog</th>
<th>Soft Nose Bridge</th>
<th>Meets ANSI Z87.1 Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3M™ Virtua CCS Safety Eyewear with Foam Gasket</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtua CCS</td>
<td>11872-00000-20 Clear Anti-Fog Lens Removable, foam lined gasket, vented</td>
<td></td>
<td></td>
<td></td>
<td>Special Features</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Removable, foam lined gasket helps limit eye exposure to nuisance dust while providing added comfort and cushioning. Easily removed for cleaning or alternate wearing configurations.</td>
</tr>
<tr>
<td>Virtua CCS</td>
<td>11873-00000-20 Gray Anti-Fog Lens Removable, foam lined gasket, vented</td>
<td></td>
<td></td>
<td></td>
<td>Small vents in the gasket help minimize fogging.</td>
</tr>
<tr>
<td>Virtua CCS</td>
<td>11874-00000-20 Indoor/Outdoor Mirrored Anti-Fog Lens Removable, foam lined gasket, vented</td>
<td></td>
<td></td>
<td></td>
<td>Anti-Fog Coated Lenses absorb 99.9% of UV. Meets the requirements of CSA Z94.3-07 and is Impact Rated to ANSI Z87.1-2010.</td>
</tr>
<tr>
<td><strong>3M™ Light Vision™ 2 Safety Eyewear</strong></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light Vision™ 2</td>
<td>11476-00000-10</td>
<td></td>
<td></td>
<td></td>
<td>These safety glasses allow you to enjoy hands-free direct lighting right at your temple. Two adjustable LED lights. Includes microfiber bag and lanyard.</td>
</tr>
<tr>
<td>Light Vision™ 2 Readers with Magnifier</td>
<td>11477-00000-10 (+1.5) 11479-00000-10 (+2.5)</td>
<td></td>
<td></td>
<td></td>
<td>Lighting and magnification. Multiple diopter strengths improve magnification for reading, inspection, and detail work. Hands-free direct lighting with adjustable LED lights.</td>
</tr>
<tr>
<td><strong>3M™ SecureFit 200 Series</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF201AF-CA Clear Anti-Fog Lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF202AF-CA Gray Anti-Fog Lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF203AF-CA Amber Anti-Fog Lens</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>3M™ SecureFit 400 Series</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF401AF, Clear Anti-fog Lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF410AS, Indoor/Outdoor Mirror Lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF402AF, Gray Anti-fog Lens</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF415AF, Clear Lens +1.5 Diopter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF420AF, Clear Lens +2.0 Diopter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SecureFit</td>
<td>SF425AF, Clear Lens +2.5 Diopter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DX AF/HC = 3M™ DX Coating, Anti-fog Hard Coat DX Coated lens is abrasion resistant, anti-mist, anti-static and minimizes chemical attack. *cdc.gov/niosh © 2012 National Institute for Occupational Safety and Health

See important product warnings on the last page.
3M™ Protective Eyewear

All eyewear featured offers:
- Polycarbonate lens
- Meets ANSI Z87.1 Standard

Looking good on-the-job, while feeling comfortable and meeting health and safety requirements are all possible, with 3M personal protection equipment.

<table>
<thead>
<tr>
<th>Safety Eyewear</th>
<th>Adjustability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3M™ BX Safety Eyewear</strong></td>
<td></td>
</tr>
<tr>
<td>BX</td>
<td>11380-00000-20 (Silver/Black frame)</td>
</tr>
<tr>
<td>BX Amber</td>
<td>11524-00000-20 (Ocean Blue frame)</td>
</tr>
<tr>
<td>BX Readers with Magnifier</td>
<td>11374-00000-20 (+1.5) 11375-00000-20 (+2.0) 11376-00000-20 (+2.5)</td>
</tr>
<tr>
<td>BX Gray lens</td>
<td>11381-00000-20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>3M™ Tour-Guard™ V Protective Eyewear</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Safety Goggles</th>
<th>Special Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M™ Lexa GoggleGear Goggles</td>
<td>Comfortable for all day use. Lens provides a wider view of the work area than traditional impact goggles and includes vent channels at top and bottom for improved airflow and comfort.</td>
</tr>
<tr>
<td>3M™ Lexa Splash GoggleGear Goggles</td>
<td>Weighs just 1.8 oz. Lens extends the viewing range further, even peripherally. Not bulky like other goggles, Splash GoggleGear has a contoured, low profile design.</td>
</tr>
</tbody>
</table>

See important product warnings on the last page.
3M™ Speedglas™ Welding Products

Make a Visual Impact

3M™ Speedglas™ Graphic Welding Helmets Series 100

Speedglas welding helmet Series 100 delivers impressive protection and performance with distinctive graphic designs — all with a specific identity. Styles are refreshed often, contact your 3M representative to learn about the latest styles.

Boneyard 49950
Ice Hot 49952
Xterminator 49958
Skull Jewels 37227
Wild-N-Pink 37229

Raging Skull 49956
Future Combatant 56077
Razor Dragon 49954
Trojan Warrior 37239
Steel Rose 37228

Blazed 37233
Aces High 37237
Tribute 56076
Steel Eyes 37226

See important product warnings on the last page.
3M™ Speedglas™ Welding Helmet 100 Series

Designed specifically to meet the needs of today’s welders, 3M™ Speedglas™ 100 Helmets with auto-darkening filter (ADF) deliver outstanding protection, comfort and durable performance with distinctive graphic design options. Welders can benefit from the excellent optical quality and reliable light-to-dark switching at a highly affordable and competitive price.

Automatic helmets (like Speedglas brand auto-darkening helmets) reduce the potential for neck strain injury from “nodding” the helmet into place. With the ADF turned on, welders see a light state of shade 3, also referred to as the resting state, making it easier to see through the filter. The lens turns to the dark state when an arc is struck and back to the light state when welding stops.

The 3M™ Speedglas™ 100V Auto-Darkening Filter, features five user selectable dark shades, shade 8 to shade 12 and a light shade of 3.

The pre-shaped head suspension is easy to adjust and improves operator comfort and safety.

See your work in a brand new light with 3M™ Speedglas™ Welding Filter 9100XXi.

The new auto-darkening filter kit for the 3M™ Speedglas™ Welding Helmet Series 9100 is your window to a new world of more realistic color and detail — to help you weld, grind and see your finish.

With improvements based on input from master welders around the world, the 3M™ Speedglas™ Welding Filter 9100XXi sets a new standard for visibility, convenience and ease of use.

Upgrade your current 3M™ Speedglas™ Welding Helmets 9100 / 9100-Air Part No: 06-0000-30i-KIT
Description: Welding filter kit 9100XXi (new silver front and 9100XXi welding filter). Applicable to Speedglas welding helmets 9100 and 9100 Air.

Part No: 06-0000-30i
Description: 3M™ Speedglas™ Welding Filter 9100XXi (without silver front panel). The filter fits to all Speedglas welding helmet series 9100, but needs the new silver front to have the outside control functions.
# 3M™ Speedglas™ Welding Helmet 9100 FX

A wider field of view with a flip-up combination of an auto-darkening welding helmet and a protective visor.

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
<th>Part No</th>
<th>Description</th>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>06-0600-10SW</td>
<td>Speedglas welding helmet 9100 FX with welding filter 9100V</td>
<td>06-0600-20SW</td>
<td>Speedglas welding helmet 9100 FX with welding filter 9100X</td>
<td>06-0600-30SW</td>
<td>Speedglas welding helmet 9100 FX with welding filter 9100XX</td>
</tr>
</tbody>
</table>

## Accessories and consumables

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
<th>Part No</th>
<th>Description</th>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-0320-00</td>
<td>Batteries 2/case</td>
<td>06-0200-52</td>
<td>Outside protection plate scratch resistant, 10/case</td>
<td>06-0500-52</td>
<td>Extended coverage, ear and neck</td>
</tr>
<tr>
<td>06-0000-10</td>
<td>Speedglas welding filter 9100V, variable shade 5, 8, 9–13</td>
<td>06-0200-52-B</td>
<td>Part no 06-0200-52, 50/case</td>
<td>06-0500-56</td>
<td>Magnification plate 1.5x</td>
</tr>
<tr>
<td>06-0000-20</td>
<td>Speedglas welding filter 9100X, variable shade 5, 8, 9–13</td>
<td>06-0200-53</td>
<td>Outside protection plate high temperature, 10/case</td>
<td>06-0500-57</td>
<td>Magnification plate 2.0x</td>
</tr>
<tr>
<td>06-0000-30</td>
<td>Speedglas welding filter 9100XX variable shade 5, 8, 9–13</td>
<td>06-0200-53-B</td>
<td>Part no 06-0200-53, 50/case</td>
<td>06-0500-58</td>
<td>Magnification plate 2.5x</td>
</tr>
<tr>
<td>06-0200-10</td>
<td>Inside protection plate 9100V, 5/case</td>
<td>06-0200-54</td>
<td>Comfort sweatband, 3/case</td>
<td>06-0500-59</td>
<td>Magnification plate 3.0x</td>
</tr>
<tr>
<td>06-0200-10-B</td>
<td>Part no 06-0200-10, 25/case</td>
<td>06-0200-54-B</td>
<td>Comfort sweatband, 12/case</td>
<td>06-0600-005SW</td>
<td>Speedglas helmet 9100 FX, without welding filter, with headband</td>
</tr>
<tr>
<td>06-0200-20</td>
<td>Inside protection plate 9100X, 5/case</td>
<td>06-0400-51</td>
<td>Headband incl assembled parts</td>
<td>06-0700-54</td>
<td>Wide-view clear grinding visor, anti-fog, 5/case</td>
</tr>
<tr>
<td>06-0200-20-B</td>
<td>Part no 06-0200-20, 25/case</td>
<td>06-0400-51-B</td>
<td>Part no 06-0400-51, 5/case</td>
<td>06-0700-63</td>
<td>Front panel, chrome</td>
</tr>
<tr>
<td>06-0200-20</td>
<td>Part no 06-0200-20, 25/case</td>
<td>06-0400-52</td>
<td>Pivot mechanism headband, left</td>
<td>06-0700-64</td>
<td>Wide-view clear grinding visor frame, black</td>
</tr>
<tr>
<td>06-0200-30</td>
<td>Inside protection plate 9100XX, 5/case</td>
<td>06-0400-53</td>
<td>Headband front part</td>
<td>06-0700-81</td>
<td>Standard headcover, crown, black</td>
</tr>
<tr>
<td>06-0200-51</td>
<td>Outside protection plate standard, 10/case</td>
<td>06-0400-54</td>
<td>Headband back part</td>
<td>06-0700-83</td>
<td>Full Hood, black/gray</td>
</tr>
<tr>
<td>06-0200-51-B</td>
<td>Part no 06-0200-51, 50/case</td>
<td>06-0400-54-B</td>
<td>Part no 06-0400-54, 5/case</td>
<td>06-0400-55</td>
<td>Battery holder 9100, 2/case</td>
</tr>
<tr>
<td>06-0200-51</td>
<td>Part no 06-0200-51, 50/case</td>
<td>06-0400-55-B</td>
<td>Part no 06-0400-55, 10/case</td>
<td>06-0400-55</td>
<td>Battery holder 9100, 10/case</td>
</tr>
</tbody>
</table>

See important product warnings on the last page.
Four new 3M™ Speedglas™ Welding Helmets, offering flip-up function, hard hat and/or respiratory protection.

3M™ Speedglas™ Welding Helmet 9100

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
<th>Part No</th>
<th>Description</th>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>06-0100-10</td>
<td>Speedglas welding helmet 9100 with welding filter 9100V</td>
<td>06-0100-20</td>
<td>Speedglas welding helmet 9100 with welding filter 9100X</td>
<td>06-0100-30</td>
<td>Speedglas welding helmet 9100 with welding filter 9100XX</td>
</tr>
<tr>
<td>06-0100-10SW</td>
<td>Speedglas welding helmet 9100 with welding filter 9100V</td>
<td>06-0100-20SW</td>
<td>Speedglas welding helmet 9100 with welding filter 9100X</td>
<td>06-0100-30SW</td>
<td>Speedglas welding helmet 9100 with welding filter 9100XX</td>
</tr>
</tbody>
</table>

Accessories and consumables

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
<th>Part No</th>
<th>Description</th>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-0320-00</td>
<td>Batteries 2/case</td>
<td>06-0200-53(8)</td>
<td>Outside protection plate 9100V, variable shade 5, 8, 9–13</td>
<td>06-0200-53-B</td>
<td>Part no 06-0200-53, 50/case</td>
</tr>
<tr>
<td>06-0000-10</td>
<td>Speedglas welding filter 9100V, variable shade 5, 8, 9–13</td>
<td>06-0200-54</td>
<td>Comfort sweatband, 3/case</td>
<td>06-0200-54-B</td>
<td>Part no 06-0200-54, 12/case</td>
</tr>
<tr>
<td>06-0000-20</td>
<td>Speedglas welding filter 9100X, variable shade 5, 8, 9–13</td>
<td>06-0200-54-B</td>
<td>Comfort sweatband, 12/case</td>
<td>06-0200-54-B</td>
<td>Part no 06-0200-54, 5/case</td>
</tr>
<tr>
<td>06-0000-30</td>
<td>Speedglas welding filter 9100XX, variable shade 5, 8, 9–13</td>
<td>06-0200-55</td>
<td>Starter kit 9100V, incl 5 outside protection plates, 2 inside protection plates and 1 sweatband</td>
<td>06-0200-55-B</td>
<td>Part no 06-0200-55, 5/case</td>
</tr>
<tr>
<td>06-0200-10</td>
<td>Inside protection plate 9100V, 5/case</td>
<td>06-0200-56</td>
<td>Starter kit 9100X, incl 5 outside protection plates, 2 inside protection plates and 1 sweatband</td>
<td>06-0200-56-B</td>
<td>Part no 06-0200-56, 5/case</td>
</tr>
<tr>
<td>06-0200-10-B</td>
<td>Part no 06-0200-10, 25/case</td>
<td>06-0200-57</td>
<td>Starter kit 9100XX, incl 5 outside protection plates, 2 inside protection plates and 1 sweatband</td>
<td>06-0200-57-B</td>
<td>Part no 06-0200-57, 5/case</td>
</tr>
<tr>
<td>06-0200-30</td>
<td>Inside protection plate 9100XX, 5/case</td>
<td>06-0200-51</td>
<td>Speedglas welding helmet 9100 with side windows, with headband and silver front panel</td>
<td>06-0200-51-B</td>
<td>Part no 06-0200-51, 50/case</td>
</tr>
<tr>
<td>06-0200-51</td>
<td>Outside protection plate standard, 10/case</td>
<td>06-0300-51</td>
<td>Speedglas welding helmet 9100 with side windows, without headband</td>
<td>06-0300-51-B</td>
<td>Part no 06-0300-51, 5/ case</td>
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<td>Part no 06-0200-51, 50/case</td>
<td>06-0300-52</td>
<td>Speedglas welding helmet 9100 with side windows, without headband</td>
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<td>06-0300-52SW</td>
<td>Speedglas welding helmet 9100 with side windows, without headband</td>
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<td>Part no 06-0200-52, 50/case</td>
<td>06-0300-53</td>
<td>Speedglas welding helmet 9100 with side windows, without headband</td>
<td>06-0300-53-B</td>
<td>Part no 06-0300-53, 5/case</td>
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<tr>
<td>06-0200-53</td>
<td>Outside protection plate high temperature, 10/case</td>
<td>06-0400-51</td>
<td>Headband incl assembled parts</td>
<td>06-0400-51-B</td>
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<td>06-0400-54</td>
<td>Headband back part.</td>
<td>06-0400-54-B</td>
<td>Part no 06-0400-54, 5/case</td>
<td>06-0400-54-B</td>
<td>Battery holder 9100, 2/case</td>
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<td>06-0400-55</td>
<td>Battery holder 9100, 2/case</td>
<td>06-0500-51</td>
<td>Extended coverage 91000, Crown</td>
<td>06-0500-51-B</td>
<td>Part no 06-0500-51, 5/case</td>
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<tr>
<td>06-0500-51-B</td>
<td>Part no 06-0500-51, 5/case</td>
<td>06-0500-52</td>
<td>Extended coverage 9100, Ear &amp; Neck</td>
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<td>Part no 06-0500-52, 5/case</td>
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<td>06-0500-53-B</td>
<td>Part no 06-0500-53, 5/case</td>
<td>06-0500-54</td>
<td>Magnification plate 1.5x.</td>
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<tr>
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<td>Magnification plate 3.0x</td>
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<td>06-0500-57</td>
<td>Magnification plate 3.0x</td>
<td>06-0500-58</td>
<td>Full Hood, black/gray</td>
<td>06-0500-58-B</td>
<td>Part no 06-0500-58, 5/case</td>
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* Please use Part No 06-0300-52SW when ordering replacement side windows. See important product warnings on the last page.
Replacement Parts and Accessories

Because every welder is different and no two jobs are exactly the same, we offer a wide range of accessories for the 3M™ Speedglas™ Welding Helmet.

### 3M™ Speedglas™ 100 Welding Helmet Replacement Parts and Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>07-0012-00/37230</td>
<td>3M™ Speedglas™ Helmet 100 with Auto-Darkening Filter Shade 10</td>
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<tr>
<td>07-0012-00BL/37231</td>
<td>3M™ Speedglas™ Welding Helmet 100 with Auto-Darkening Filter Shade 11</td>
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<tr>
<td>07-0012-00XX/37232-39</td>
<td>3M™ Speedglas™ Helmet 100 with Auto-Darkening Filter Shades 8-12 (Graphic Versions)</td>
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<tr>
<td>07-0012-00XX</td>
<td>3M™ Speedglas™ Graphic Welding Helmet 100 (No Headband or ADF, Model # Depends on Graphic Design)</td>
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<tr>
<td>07-0001-10/37247</td>
<td>3M™ Speedglas™ Auto-Darkening Filter 100S-10, Shade 10</td>
</tr>
<tr>
<td>07-0001-11/37248</td>
<td>3M™ Speedglas™ Auto-Darkening Filter 100S-11, Shade 11</td>
</tr>
<tr>
<td>07-0001-31/37246</td>
<td>3M™ Speedglas™ Auto-Darkening Filter 100V, Shades 8-12</td>
</tr>
<tr>
<td>07-0024-02/17196</td>
<td>3M™ Speedglas™ Sweatband, Fleece, Black</td>
</tr>
<tr>
<td>07-0200-51/37243</td>
<td>3M™ Speedglas™ Outside Protection Plate 100 Standard</td>
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<tr>
<td>07-0200-52/37244</td>
<td>3M™ Speedglas™ Outside Protection Plate 100 Scratch Resistant</td>
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<tr>
<td>07-0200-53/37245</td>
<td>3M™ Speedglas™ Outside Protection Plate 100 High Temperature</td>
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<tr>
<td>07-0212-00SV/17157</td>
<td>3M™ Speedglas™ Front Panel, Silver</td>
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<tr>
<td>07-0212-01BL/17158</td>
<td>3M™ Speedglas™ Front Panel, Black</td>
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<tr>
<td>07-0212-02CH/17159</td>
<td>3M™ Speedglas™ Front Panel, Chrome</td>
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<tr>
<td>07-0212-03BM/17232</td>
<td>3M™ Speedglas™ Front Panel, Black Matte</td>
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<tr>
<td>07-0680-00/17195</td>
<td>3M™ Speedglas™ Magnifying Lens Holder 100</td>
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<tr>
<td>06-0500-54/89378</td>
<td>3M™ Speedglas™ Welding Beanie</td>
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<td>06-0500-55/89379</td>
<td>3M™ Speedglas™ Welding Cap</td>
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<td>06-0500-56/89380</td>
<td>3M™ Speedglas™ Magnification Plate, 1.5x</td>
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<td>06-0500-57/89381</td>
<td>3M™ Speedglas™ Magnification Plate, 2.0x</td>
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<td>06-0500-58/89382</td>
<td>3M™ Speedglas™ Magnification Plate, 2.5x</td>
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<td>06-0500-59/89383</td>
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<td>05-0370-00/98563</td>
<td>3M™ Speedglas™ Battery Holder SL</td>
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<td>05-0665-00/56075</td>
<td>3M™ Speedglas™ Headband Assembly Kit SL</td>
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<td>04-0290-00/37136</td>
<td>3M™ Speedglas™ Inside Protection Plate (ADF)</td>
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<tr>
<td>04-0320-00/37137</td>
<td>3M™ Speedglas™ Battery, 2 batteries</td>
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<tr>
<td>02-0024-00/37124</td>
<td>3M™ Speedglas™ Replacement Sweatband, Cotton Fleece with Padding</td>
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<tr>
<td>02-0024-01/37125</td>
<td>3M™ Speedglas™ Replacement Sweatband, Leather</td>
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<td>02-0024-02/93101</td>
<td>3M™ Speedglas™ Sweatband, Foam Laminate, Black</td>
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<tr>
<td>02-0645-00/37126</td>
<td>3M™ Speedglas™ Headcover, FR Cotton</td>
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<tr>
<td>02-0690-00/93078</td>
<td>3M™ Speedglas™ Throat Protector, FR Cotton</td>
</tr>
<tr>
<td>18-0099-68/37148</td>
<td>3M™ Speedglas™ Throat and Side Protector, Leather</td>
</tr>
</tbody>
</table>

**Note:** Welding can create a variety of harmful fumes and gases. When engineering controls are impractical, respirators may be required to help reduce exposures to these airborne welding contaminants. See important product warnings on the last page.
3M™ Protective Coveralls

Designed for the Demands of the Workplace

Harmful dust, light liquid splashes and sprays. These are just some of the dangers inherent in your workplace. 3M offers a line of quality disposable coveralls to help protect you and your workers. Used for a variety of applications, 3M™ Protective Coveralls offer quality and reliability: helping workers to maneuver freely and do their jobs effectively.

- Breathable material options to help reduce heat buildup and promote comfortable wear, while helping to protect against certain dusts and light liquid splashes
- Knit cuffs, elasticized waist and ankles for increased comfort and freedom of movement
- Three panel hood design for better compatibility with complementary PPE
- Two-way zipper with sealable storm flap for additional protection
- Reinforced gusset for increased durability
- Low-linting material with anti-static coating

3M™ Protective Coverall 4510, entry level splash and dust protection

Typical Applications
- Metal polishing
- Machine or vehicle maintenance
- Cleanup and processing
- Paint spraying

3M™ Protective Coverall 4520, entry level protection with comfort

Typical Applications
- Light-duty building cleaning
- Fiberglass

See important product warnings on the last page.
3M™ Protective Coveralls

3M™ Protective Coverall 4540+, enhanced performance with comfort built in

Typical Applications
• Paint spraying
• Vehicle processing

3M™ Protective Overboots 450 add-on accessory for footwear protection

• Constructed from laminated microporous material with a slip resistant sole
• One size with ties and elastic at the calf to provide a good fit

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Packout Qty.</th>
<th>UPC</th>
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<tbody>
<tr>
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<td>00585</td>
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<td>52571</td>
<td>Protective Overboots 450</td>
<td>100 Pairs/Case</td>
<td>040 46719 52571 3</td>
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*When FR is required, it must be worn over a primary protective garment and not worn next to skin. Cuffs are not flame resistant. See important product warnings on the last page.
Selected Occupational Safety and Health Administration (OSHA) and the American National Standards Institute (ANSI) Standards*

OSHA 29 CFR 1910.133
Eye and Face Protection
1910.133(a)(1)
“The employer shall ensure that each affected employee uses appropriate eye or face protection when exposed to eye or face hazards from flying particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, or potentially injurious light radiation.”

1910.133(a)(2)
“The employer shall ensure that each affected employee uses eye protection that provides side protection when there is a hazard from flying objects. Detachable side protectors (e.g. clip-on or slide-on side shields) meeting the pertinent requirements of this section are acceptable.”

1910.133(a)(3)
“The employer shall ensure that each affected employee who wears prescription lenses while engaged in operations that involve eye hazards wears eye protection that incorporates the prescription in its design, or wears eye protection that can be worn over the prescription lenses without disturbing the proper position of the prescription lenses or the protective lenses.”

1910.133(a)(5)
“The employer shall ensure that each affected employee uses equipment with filter lenses that have a shade number appropriate for the work being performed for protection from injurious light radiation.”

For complete OSHA standards, go to OSHA.gov.

ANSI
The American National Standards Institute (ANSI) is a private non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems, and personnel in the United States. The organization also coordinates U.S. standards with international standards so that American products can be used worldwide.

ANSI accredits standards that are developed by representatives of other standards organizations, government agencies, consumer groups, companies, and others. These standards ensure that the characteristics and performance of products are consistent, that people use the same definitions and terms, and that products are tested the same way. ANSI also accredits organizations that carry out product or personnel certification in accordance with requirements defined in international standards.

Impact Spectacles - ANSI Z87.1
Impact spectacles shall be capable of resisting an impact from a pointed projectile weighing 17.6 oz. dropped from a height of 50 inches. Impact spectacles shall be capable of resisting impact from a ¼ inch steel diameter ball traveling at a velocity of 150 feet per second. All of our eye and face protectors listed in this catalog meet the Impact requirements of ANSI Z87.1 Impact spectacles shall be capable of resisting a penetration by a weighted needle with minimum weight of 1.56 oz dropped from a height of at 127 cm.

Faceshields - ANSI Z87.1
A protector intended to shield the wearer’s face, or portions thereof from certain hazards, as indicated by the faceshield’s markings. Faceshields shall be worn only in conjunction with spectacles or goggles.

Welding Helmet - ANSI Z87.1
A device intended to provide protection specifically to the eyes and face against welding-related optical radiation and weld spatter.

*Employers should thoroughly read and understand these and all applicable regulations prior to selection and use of personal protection equipment.
See important product warnings on the last page.
3M Respirator Applications Wheel
Possible Solutions for Common Activities

1. Use up to 10 times the PEL (**)
2. Use up to 25 times the PEL (**)
3. Use up to 50 times the PEL (**)
4. Use up to 1,000 times the PEL (**)
PEL = Permissible Exposure Limit

3M™ Full Facepiece Respirators
6000 Series, 07138, 07139, 07140

3M™ Half Facepiece Respirators
Bodyman Packout
07181, 07182, 07183, P100

3M™ Speedglas™ Products
37263, 37264, 37265

3M™ Particulate Respirator 07181, 07182, 07183, P100

3M™ Disposable Half Facepiece Respirator 07191, 07192, 07193, P95

3M™ Paint Spray Kit 37335. Use 3M™ High Efficiency Cartridge 07196

3M™ Ultimate FX Full Facepiece Reusable 89418, 89421, 89424

3M™ Professional Series Half Facepiece Respirator with 3M™ Face Shield Kit 37106

See important product warnings on the last page.

1. Use up to 10 times the PEL (**)
2. Use up to 25 times the PEL (**)
3. Use up to 50 times the PEL (**)
4. Use up to 1,000 times the PEL (**)

PEL = Permissible Exposure Limit

3M Particulate Respirator 07181, 07182, 07183, P100

3M™ Belt-Mounted Powered Air Purifying Respirator (PAPR)
Paint Spray Kit 37335. Use 3M™ High Efficiency Cartridge 07196

3M™ Disposable Protective Coverall
4520 Series

3M™ Professional Respirator Packout
37077, 37078, 37079 with 3M™ Filter Retainers 07054 and Filter 07194, P95

3M™ Professional Series Half Facepiece Respirator with 3M™ Face Shield Kit 37106
See important product warnings on the last page.

* 3M recommended for relief against nuisance levels of organic vapors. Nuisance level organic vapor refers to concentrations not exceeding OSHA PEL or applicable exposure limits, whichever is lower.

** Respirator selection and use should be in accordance with applicable safety and health standards, or pursuant to the recommendations of an industrial hygienist.

NOTE: Quantitative fit testing must be completed for 50 times the PEL.
Respirator Administration and Workplace Hazard Identification Process*

**Review, Retrain and Fit Test Annually**

**STEP 1**
- Have the contaminants and exposures been assessed and monitored in the workplace?

**STEP 2**
- Does the customer have a written respiratory protection program?
  - Respirator selection made?
  - Changeout schedule established?

**STEP 3**
- Has the customer performed medical evaluations on all respirator wearers?

**STEP 4**
- Have the respirator wearers been fit tested and trained on the proper use and maintenance of their respirators?

**IF NO**
- Refer to:
  - 3M "Administrative Respiratory Protection Program" written template available at 3M.com/PPESafety
  - Respirator selection and Changeout schedule available at 3M.com/respguide

**IF YES**
- 3M’s Personal Air Monitoring Systems are designed for measuring exposure to an assortment of vapors
- For particulates and other workplace hazards, consult your insurance carrier or industrial hygienist

**PROCEED TO STEP 2**

**PROCEED TO STEP 3**

**PROCEED TO STEP 4**

Refer to:
- 3M "Administrative Respiratory Protection Program" written template available at 3M.com/PPESafety
- Respirator selection and Changeout schedule available at 3M.com/respguide
- Tools to assist with training are available online at 3M.com/PPESafety
- 3M Automotive Aftermarket Sales Representative can assist with fit testing

*For complete requirements of OSHA’s respirator standard, 29 CFR 1910.134, go to OSHA.gov. See important product warnings on the last page.
Your respiratory protection program starts here.

As the safety administrator, running a successful respiratory protection program means navigating a maze of regulations and anticipating hazards. Consider us a helpful resource. Whenever you are in the process, we can help guide you to the right information.

To run a successful workplace respiratory protection program, you must understand and comply with the standards set by state and federal administrations like the Occupational Safety and Health Administration (OSHA). If you’ve already started your research, you know it can be overwhelming. To help you make sense of it all, we’ve summarized key elements of the federal standard and give ideas for how to comply with each one.

Consider us a helpful resource.

Highlights of the OSHA regulations on respiratory protection.

When respiratory protection is required by OSHA, a written respiratory protection program has to be established. That means the designated program administrator must oversee the following:

• Assessment of exposure to airborne contaminants
• Selection of appropriate respirators
• Evaluation of employees’ health to make sure they can wear a respirator
• Fit-testing and training of employees regularly
• Inspection, repair, cleaning, storage and replacement of respirators as needed
• Review of the program periodically to make sure it’s being run properly
• Keeping a written record of all of the above

Each part of the program can seem complex. Although as a safety administrator you must follow all applicable rules and regulations, we’ve outlined key highlights to help you navigate them.

Site: OSHA Federal Regulation 29 CFR 1910.34
To learn more, visit 3M.com/RespiratorFitTesting

3M™ Organic Vapor Monitor 3500B

The 3M™ Organic Vapor Monitor 3500 uses the proven scientific principle of diffusion, which is the gradual mixing of molecules of two or more substances. It has a single charcoal sorbent wafer for easy collection of organic vapors and can be used for many applications.

See important product warnings on the last page.
Cartridge Changeout Program
3M continues to provide safety options to our customers through products, services, and solutions. 3M’s Cartridge Changeout Program (CCOP) is an online tool that allows you to register and update automated cartridge replacement through the distributor of your choice. This program will assist in your written respiratory program compliance, OSHA standard 1910.134

Please contact your local 3M Sales Representative for details or visit 3M.com/CCOP.

3M Select & Service Life Software
3M has designed state of the art software to help make the selection of 3M™ Respirators easier and to help estimate the service life of 3M™ Gas and Vapor Cartridges.

Go to: 3M.com/SSLS for more information.

Regulatory Compliance Services Offered:
Respirator Medical Evaluations: Online

Online Respirator Medical Evaluations
This easy-to-use questionnaire helps establish the worker’s clearance level for using a specific respirator in your work conditions. It can be completed in 15-20 minutes using any computer with internet access, and is available every day, any time, to fit your employees’ schedules. Any respirator brand can be used. You’ll receive immediate notification of clearance as well as online recordkeeping to track employee status. Available in English and Spanish.

Try an online demo at: respexam.com

For additional information on these services, please visit respexam.com, call 1-800-383-3393 or contact your local 3M Sales Representative.

Exposure assessment is a continuous process.

1. Basic characterization
   Gather data about tasks and processes, chemicals, and potential exposures.

2. Similar Exposure Groups (SEGs)
   Group workers by similar tasks, schedules, materials used and methods.

3. Qualitative assessment and prioritization
   Rank SEGs by potential for exposure and health effects of overexposure.

4. Exposure monitoring
   Collect samples and have them analyzed to determine employee exposure.

5. Interpretation and decision-making
   Evaluate the results:
   - Insufficient data: conduct more assessments and re-evaluate.
   - Acceptable exposures: no action beyond periodic re-evaluation.
   - Unacceptable Exposures: modify controls and/or procedures.

6. Reporting
   Keep detailed records.

See important product warnings on the last page.
Fit Testing Kits and Accessories

FT-10 Kit: Part # 16358
- Laminated instructions booklet
- Sweet sensitivity & fit test solutions
- 2 nebulizers, 1 hood and 1 collar assembly
- Cardboard carrying case

FT-30 Kit: Part # 54203
- Laminated instructions booklet
- Bitter sensitivity & fit test solutions
- 2 nebulizers, 1 hood and 1 collar assembly
- Cardboard carrying case

* Please contact your 3M sales representative or 3M.com/RespiratorFitTesting
See important product warnings on the last page.
### WARNING

**Respiratory Products (See pages 2-12)**

These respirators help protect against certain airborne contaminants. 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 correct use, consult your supervisor or User Instructions or call 3M PSD Technical Service in the USA at 800-243-4630. In Canada, call Technical Service at 800-267-4414.

### WARNING

**Eye and Face Products (See pages 16-19)**

These eye and face protection products help provide limited eye and face protection. Misuse or failure to follow warnings and User Instructions may result in serious potential injury, including blindness or death. For correct use, consult your supervisor or User Instructions or call 3M PSD Technical Service in the USA at 800-243-4630. In Canada, call Technical Service at 800-267-4414.

### WARNING

**Hearing Protection Products* (See pages 13-15)**

Choking Hazard—Keep away from infants and small children. These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For correct use, consult your supervisor or User Instructions or call 3M PSD Technical Service in the USA at 800-243-4630. In Canada, call Technical Service at 800-267-4414. If there is any drainage from your ear or you have an ear infection, consult with your physician before wearing earplugs. Failure to do so may result in hearing loss or injury.

**NRR footnote:**

CAUTION: 3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to variation in hearing protector fit, fitting skill and motivation of the user. If the NRR is used, 3M recommends that it be reduced by 50% or in accordance with applicable regulations.

### WARNING

**Protective Coveralls (See pages 25-26)**

These protective coveralls help protect against certain liquid splashes and hazardous dusts. Before use, wear must read and understand the User Instructions provided as part of the product packaging. Failure to follow all instructions on the use of these protective clothing products and/or failure to wear the complete product during all periods of exposure may adversely affect the wearer’s health, or lead to severe or life threatening illness or permanent disability. Final determination as to the suitability of these products for a particular situation is the employer’s responsibility. For correct use, consult your supervisor or User Instructions or call 3M PSD Technical Service in the USA at 800-243-4630. In Canada, call Technical Service at 800-267-4414.

### WARNING

**Welding Helmets (See pages 20-24)**

This product is designed to help protect the wearer’s eyes and face from harmful radiation including visible light, ultra-violet radiation (UV), infra-red radiation (IR), sparks and spatter resulting from welding processes. These products must be used only by qualified persons who are properly trained in their use and maintenance. Misuse may result in permanent eye injury and vision loss. Always wear ANSI Z87.1 compliant safety spectacles in addition to any welding helmet. For correct use, consult your supervisor or User Instructions or call 3M PSD Technical Service in the USA at 800-243-4630. In Canada, call Technical Service at 800-267-4414.

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**For More Information**

**In U.S.**

Technical Assistance 800-243-4630  
Customer Care Center 800-328-1667

**In Canada**

Technical Assistance 800-267-4414  
Customer Care 800-364-3577