Breathe easy now so you can breathe easy in the years to come.

3M Disposable Respirators
Product Guide 2017
Airborne Hazards.

Finding the right protection...

Brick Dust
Brick dust and ash contains very fine particles of silica which can be breathed deep into the lungs and scar the delicate tissue (silicosis); exposure may also increase the risk of lung cancer.

Cement Dust
Some cement processes can also release very small particles of silica which can be breathed deep into the lungs and scar the delicate tissue (silicosis); exposure may also increase the risk of lung cancer.

Wood Dust
Exposure can cause occupational asthma in some individuals as inhalation of wood dust particles may initiate an allergic reaction causing them to become more sensitive in the future. Dusts from hardwoods may also cause cancers of the nose.

Lead
Dust and fumes inhaled from industrial processes involving lead or lead compounds may be absorbed and circulate in your blood. Lead can be excreted but it can also be stored by the body. If the amount of lead in your body is too high, it can cause symptoms such as headaches and nausea. If uncontrolled, long term exposure can damage vital organs.

Silica
Very small particles of silica dust, called respirable crystalline silica, can be breathed in and may reach deep into the lungs where it can scar the delicate tissue (silicosis) resulting in difficulties breathing. Long-term exposure to crystalline silica may also increase the risk of lung cancer.

Flour Dust
Inhalation of dust particles from flour can cause bronchitis and irritation to the nose and airways. In some people, exposure may cause occupational asthma, wheezing or serious breathing difficulties.

Welding
Inhalation of some metal oxides found in welding fumes can lead to metal fume fever - the symptoms are short term but include coughing, headaches and fever. Exposure to certain nickel and chromium compounds found in some welding fumes may increase the risk of lung cancer.

Activated Carbon
Layers of carbon in 3M® Welding and 3M® Specialty Respirators are designed to offer relief from the irritation of low levels of specific gases and vapours.

Importance of Fit
3M provides a variety of respirators for customers to select one that fits best on their own face. Fit testing is used to confirm adequate fit and level of protection in the work place.

Adjustment Buckle Straps
Simply pull on the 3M™ Universal Buckle to achieve the optimal comfort and security.

Confidence in Numbers
3M has a rich 100-plus-year history of research and innovation, over 40 in respiratory protection alone, and a passion for designing safe, comfortable respirators. The first Saccharin and Bitrex™ qualitative fit test methods were invented by 3M.

Advantages of 3M™ Disposable Respirators

3M™ Cool Flow Valve
An efficient exhalation valve minimises heat and moisture build up, particularly in hot and humid work conditions.

3M™ High Performance Filter Media
High Performance Filter Media combines the benefits of traditional mechanical filtration with advanced technology filtration to capture particles.

3M™ Foldable Three-Panel Design
This design offers improved comfort, fit and communication – plus the convenience of a foldable respirator. (9300A+ series)

3M™ Clog-Resistant Welding Respirators
Particles are trapped throughout the lofty outer layer and then by the inner filter. This prolongs respirator life while maintaining ease of breathing.

Our technology.

In 1969 3M invented the disposable respirator. We were also involved in the development, trial and authentication of qualitative fit testing protocols for respirators. Since then, we have developed numerous proprietary technologies that have been incorporated throughout our comprehensive range of disposable respirators. Workers need respirators that fit well, are comfortable and provide the best protection. Employers want quality products from a supplier they can trust. Our wide range of respirators helps to deliver easier breathing and comfortable protection against particles and certain gases and vapours. All our disposable respirators are compatible with eyewear and hearing protection products from 3M.

All 3M respirators meet the performance requirements of Australian/New Zealand Standard AS/NZS 1716:2012 ‘Respiratory protective devices’.
Cool Flow Valve.

Cool comfort starts with cool breathing

The proprietary 3M™ Cool Flow™ valve is designed to release your hot, humid exhaled breath quickly, helping to prevent an unpleasant build up of heat inside the facepiece - a significant cause of discomfort to respirator wearers.

The Cool Flow valve’s efficiency in keeping breathing cool and comfortable has been demonstrated through testing*: the atmosphere inside a respirator with a Cool Flow valve is on average 4.2°C cooler than the similar product without the valve.

This makes Cool Flowvalved respirators ideal for long periods of wear, especially where conditions are hot, humid or physically demanding.

To learn more and see the Cool Flow valve in action, visit www.3m.com.au/CoolFlow or www.3m.co.nz/CoolFlow.

---

Visible from outside: the comfort difference with 3M™ Cool Flow™ valve

The colors in the thermal images below show the change in surface temperature of the respirators as the models inhale and exhale.

**Inhalation:**
- Cool: 29.7°C
- Warm: 32.2°C

**Exhalation:**
- Cool: 31.5°C
- Warm: 31.9°C

---

Expel heat as you exhale it

**Unique proprietary design**
- Seals during inhalation
- Easily opens during exhalation

**Aerodynamically designed valve cover**
- Directs airflow away from your eyes and face to help reduce eyewear fogging

**In combination with 3M proprietary filter media**
- The Cool Flow valve helps minimise breathing effort required by respirator wearer

---

Selecting the right product.

Selecting and specifying the appropriate respiratory protective equipment can seem daunting with so many factors to consider. Use our simple three step selection system to ensure the respirator you choose offers the correct levels of protection and comfort required by your employees.

1. **Choose a protection factor**

   - P1 is the rating given to a respirator which meets AS/NZS1716:2012 for filtering mechanically generated particles, e.g., particles formed by crushing, grinding, drilling, sanding and cutting.
   - P2 is the rating given to a respirator that meets AS/NZS1716:2012 for filtering mechanically and thermally generated particles, e.g., those from welding fume. Respirators with a P2 rating are also recommended for use in certain applications against some bioaerosols such as H1N1 and H5N1 Influenza.
   - Type ‘G’ class rating is suitable for low vapour pressure (below 1.3Pa @ 25°C) organic compounds e.g. many agricultural chemicals like herbicide and pesticide.

2. **Choose a valved or unvalved respirator**

   - **Benefits of a Valved Respirator**
     - Reduces exhalation effort
     - Cooler to wear
     - Stays comfortable for longer
     - Less likely to mist up eyewear
   - **Benefits of a Unvalved Respirator**
     - Lower unit cost
     - Reduces potential for wearer contamination of their environment

3. **Choose a Style**

   - **3M™ Comfort Series**
     - Exceptional comfort
     - Excellent fit over a wide range of face sizes
     - Unique designs
   - **3M™ Classic Series**
     - Traditional cup shape
     - Lightweight, comfortable and effective
     - Durable collapse resistant shell
   - **3M™ Basic Series**
     - Reliable and convenient
     - Lightweight and economical
     - Protection you can afford
   - **3M™ Welding & Specialty Respirators**
     - Activated carbon layer
     - Comfort with technology
     - High quality performance

---

4. **Fit Test** (see page 14)

   A respirator cannot protect you if it does not fit your face.

   Best practice for any Personal Protective Equipment is to ensure the right fit. Proper fitting of a respirator requires the application of an accepted method of fit testing. It is recommended that wearers be fit tested in accordance with Standards Australia’s Guidance document AS/NZS 1715:2009.

   3M can visit you site to provide Fit Testing, PPE Training and Toolbox Talks. Conditions apply, so contact your local 3M representative for more information.
Comfort Series

9300A+ Aura™ Particulate Respirators

This respirator series set new benchmarks in wearer comfort. The advanced three panel design and ultra soft inner cover web allows the 3M 9300A+ series respirator to comfortably mould onto your face and accommodate facial movements without compromising the fit. Being foldable, they offer you more convenience than traditional cup shaped respirators. Its features include a headband material which helps even out strap pressure.

Features and Benefits

Low breathing resistance
- Combines the benefits of 3M’s electret particulate filter material with advanced low breathing resistance filter technology
- Gives effective filter performance whilst lowering resistance to breathing
- Improved breathing ease and comfort

3M™ Cool Flow™ valve
- Effectively removes heat build up
- Provides a cooler and more comfortable wear
- Removes exhaled air and minimises the risk of fogging eyewear

Convenience
- Flat-folded: easy to store when not in use
- Hygienic individual packaging helps protect the respirator from contamination before use
- Innovative chin tab improves ease of donning and adjustment to help achieve a comfortable fit

Clear vision
- Embossed top panel helps reduce fogging of eyewear

Sculpted nose panel
- Curved, low profile design
- Conforms well to nose and eye contours
- Helps provide a good field of vision
- Improves compatibility with eyewear

Face and head comfort
- Ingenious 3-panel design fits a wide range of face shapes and sizes
- Accommodates your facial movements
- Collapse resistant; ideal for work in hot humid environments
- Stays securely in place, helping to provide a good, comfortable seal
- Large soft nose foam material and smooth inner cover web help to create a comfortable environment for the face

Comfort Series

9422+ Aura™ Particulate Respirators

3M” Aura™ Disposable Respirators 9422+ are specifically designed for the food industry, coloured bright blue for easy identification and constructed without staples or small detachable parts. Ideal for the food manufacturing industry or other work situations where workers are exposed to dusts, mists and fumes requiring FFP2 protection.

Features and Benefits

Food industry specific design and material
- Highly visible blue flat fold disposable P2 respirator offering reliable, effective protection against moderate levels of fine dust & mists
- Made without staples or small detachable parts
- Embedded metal nose clip and highly visible blue colour for quick search recognition to help ensure the safety of your production
- Maximum usage level : Up to 10 x National Exposure Standard.

Low breathing resistance
- 3M electret particulate filter technology for easier breathing through your shift
- Gives effective filter performance whilst lowering resistance to breathing
- Improved breathing ease and comfort

3M™ Cool Flow™ valve
- Reduces heat and moisture build-up to offer workers comfortable protection - even in hot and humid conditions

Convenience
- Supplied in hygienic packaging to help protect the respirator from contamination before use
- Allows practical storage and dispensing in the workplace.

Innovative chin tab
- Provides ease of donning and adjustment of the respirator on the face

Clear vision
- Embossed top panel to reduce fogging of eyewear
- Curved, low profile design
- Conforms well to nose and eye contours
- Helps provide a good field of vision
- Improves compatibility with eyewear

Face and head comfort
- Ingenious 3-panel design that accommodates greater facial movement during speech so much more comfortable to wear
- Sculpted nose panel helps conform to the nose and contours of the face and helps to improve compatibility with 3M eyewear
- Collapse resistant; ideal for work in hot humid environments
- Stays securely in place, helping to provide a good, comfortable seal
- Large soft nose foam material and smooth inner cover web help to create a comfortable environment for the face

Available as:

Valved
9322A+
10 respirators/box
12 boxes/case

Unvalved
9320A+
20 respirators/box
12 boxes/case

9312A+
Valved
10 respirators/box
12 boxes/case

P1
P2

The 3M™ Cool Flow™ valve is available only on 3M respirators.
Comfort Series

8300 Series Particulate Respirators

The 8300 Series is 3M’s most recent addition to our range of disposable respirators. The 8300 Series is designed with your comfort in mind. The super soft, cushioned lining provides instant yet lasting comfort; whilst the robust design makes these respirators tough and durable. It also features an M-shaped nose clip to make it easier to fit and be more comfortable around your nose.

Features and Benefits

Braided Straps
- Materials have been selected for extra comfort
- Colour coded to indicate performance level

M-Shaped Nose Clip
- Quick and easy nose clip for wearers to shape around the nose offering greater comfort and better fit

3M™ Cool Flow Valve (8322 & 8312)
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises risk of misting eyewear

Robust Outer Shell
- Shell construction offers users added durability

‘Cushion-Fit’ Lining
- Super-soft, cushioned inner lining helps workers to stay comfortable

Soft Waffle Edge
- Flexible, textured edge offers a comfortable and secure fit

3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

Classic Series

8000 Series Particulate Respirators

The Classic Respirator Series provides lightweight, comfortable and effective respiratory protection against particulates. The cupped shape, twin strap design, nose foam and nose clip help to provide comfort and fit over a range of face sizes.

The 3M™ 8710 respirator was the first disposable respirator to be certified to AS/NZS 1716. Still widely used today, this respirator is trusted by millions of workers all over the world.

The unique valve in the 3M™ 8822 and 3M™ 8812 respirators and collapse resistant shell offer durable, comfortable protection particularly in hot and humid conditions.

Features and Benefits

Comfort
- Adjustable nose clip helps reduce eyewear fogging and ensures a better seal and fit
- Two point latex free straps help to provide a secure fit
- Comfortable, lightweight, off-the-face design

Safety
- Reliable, effective protection against particles
- Durable, collapse resistant inner shell

3M™ Cool Flow Valve (8822 & 8812)
- Effective removal of heat and moisture build up provides a cooler and more comfortable wear
- Removes exhaled air and minimises the risk of misting eyewear

3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

Available as:

Valved
10 respirators/box
8 boxes/case

Unvalved
10 respirators/box
8 boxes/case

The 3M™ Cool Flow™ valve is available only on 3M respirators.

Available as:

Valved
10 respirators/box
24 boxes/case

Unvalved
20 respirators/box
8 boxes/case

The 3M™ Cool Flow™ valve is available only on 3M respirators.

P1 P2
Basic Series

K100 Series Particulate Respirators

With the K100 Series, 3M applies its global technology to bring you reliable, professional protection at an affordable price. K100 flat-fold respirators are designed to be wearer-friendly, with the comfort and convenience workers need to make a long and demanding shift a little easier to face. The K100 series features a diamond-shaped front which allows the respirator to maintain its shape in hot and humid environments.

Features and Benefits

Straps
- Single loop allows for easy adjustment of length
- Latex free and staple free

Adjustable Coloured Nose Clip
- Reduces eyewear fogging and helps ensure a better seal and fit
- Provides easy identification:
  - P2 = Blue
  - P1 = Yellow

Diamond-Shaped Front
- Allows the respirator to maintain its shape in hot, humid environments

Flat Fold Design
- Enables easy storage when not in use

3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

You don’t have to sacrifice reliability, quality or service just to save on your protective equipment. With 3M’s Basic Particulate Respirators, you get the product you need at an economical price – all from a company you know and trust.

This product is the one to choose when you need a lower cost respirator that offers reliable protection for use in a variety of dusty applications.

Basic Series

8000 Series Particulate Respirators

Available as:

K102
Unvalved
20 respirators/bag
10 bags/case

K101
Unvalved
20 respirators/bag
10 bags/case

Features and Benefits

Adjustable Nose Clip
- Reduces eyewear fogging and helps ensure a better seal and fit

Two-Point Strap
- Helps provide a secure fit
- Latex free

Lightweight Construction
- Enhances worker comfort and wear time

3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance
Basic Series

VFlex™ Particulate Respirators

The VFlex is a unique addition to 3M’s range of disposable particulate respirators. Its V-shaped pleats expand to provide a comfortable seal while giving you a spacious feel. The pleats flex with mouth movement for comfort and to maintain face seal performance. Potential applications and industries for the VFlex include: sweeping, sanding, grinding, sawing, food preparation, agriculture, mineral processing, laboratories, dry chemical handling and more.

The respirator is available in two sizes to fit a broad range of faces.

Features and Benefits

Adjustable Nose Clip
- Helps provide a custom fit and secure seal
- Embedded, metal detectable

V-shaped pleats
- Flex with mouth movement for easier talking
- Expand to assist face fit performance

Tabs
- Uniquely designed to assist with positioning the respirator on the face

3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

Elastic Headbands
- Contains no natural rubber latex components

Flat-fold Convenience
- Convenient storage prior to use

Additional Design Features
- Embossed front panel helps the respirator to retain its shape
- Comfortable inner layer
- Spacious inside with minimal impact on field of vision
- Compatible with a variety of eyewear and hearing protection from 3M

Welding Respirators

The 3M Welding Respirator Series provides lightweight, effective, and comfortable respiratory protection. These durable respirators are designed specifically for welding applications to provide protection against ozone and welding fumes, plus relief from nuisance odours. They resist clogging and do not require costly and time-consuming maintenance. Like our other disposable respirators, the welding series is compatible with 3M eyewear and hearing products. It is also compatible with 3M™ Speedglas™ Welding Shields.

Features and Benefits

Robust Shell and Cup Design
- Deep loading, cake resistant, flame retardant media
- Conforms well to most face shapes and sizes
- Resistant to collapse

Straps
- 3M™ Universal Buckle adjustment offers a comfortable and secure feel
- Heavy duty straps

3M™ Cool Flow Valve
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises risk of misting eyewear

Activated Carbon layer
- The 8514 has an additional activated carbon layer to filter out ozone and nuisance levels* of organic vapour

3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

*Nuisance levels are those levels below the Safe Work Australia Exposure Standards.

Available as:

8514
Valved
10 respirators/box
8 boxes/case

The 3M™ Cool Flow™ valve is available only on 3M respirators.
Specialty Respirators
Organic Vapour

The Organic Vapour Specialty Respirators by 3M are developed for particular working environments. These respirators feature an integrated activated carbon layer that offers relief from levels of nuisance odours below Safe Work Australia exposure standards. They can be used for a wide variety of applications ranging from mining to weed spraying to waste sorting. The Specialty range provides lightweight, effective, comfortable and hygienic respiratory protection against particles and organic vapours.

Features and Benefits
Robust Shell and Cup Design
- Deep loading, cake resistant, flame retardant media
- Conforms well to most face shapes and sizes
- Resistant to collapse
3M™ Cool Flow Valve
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises risk of misting eyewear
Activated Carbon Layer
- All of these specialty products offer an additional activated carbon layer to filter out ozone and nuisance levels∗ of organic vapour
3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

Nuisance levels are those levels below the Safe Work Australia Exposure Standards.

The Organic Vapour Specialty Respirators by 3M are developed for particular working environments. These respirators feature an integrated activated carbon layer that offers relief from levels of nuisance odours below Safe Work Australia exposure standards. They can be used for a wide variety of applications ranging from mining to weed spraying to waste sorting. The Specialty range provides lightweight, effective, comfortable and hygienic respiratory protection against particles and organic vapours.

Features and Benefits
Robust Shell and Cup Design
- Deep loading, cake resistant, flame retardant media
- Conforms well to most face shapes and sizes
- Resistant to collapse
3M™ Cool Flow Valve
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises risk of misting eyewear
Activated Carbon Layer
- All of these specialty products offer an additional activated carbon layer to filter out ozone and nuisance levels∗ of organic vapour
3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

Nuisance levels are those levels below the Safe Work Australia Exposure Standards.

Specialty Respirators
Acid Gas

The Acid Gas Specialty Respirators by 3M provide lightweight, effective, comfortable and hygienic respiratory protection against particles, with additional relief from nuisance levels∗ of acid gases such as sulfur dioxide and hydrogen fluoride. The cupped shape, twin strap design, foam nose seal and nose clip ensure comfortable wear over a wide range of face sizes.

Features and Benefits
Robust Shell and Cup Design
- Conforms well to most face shapes and sizes
- Maintains its shape during use
- Resistant to collapse
3M™ High Performance Filter Media
- Effective filtration combined with low breathing resistance
- Consistent high quality performance
3M™ Cool Flow Valve (9926 & 9916)
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises risk of misting eyewear
Two-Point Braided Straps
- Help provide comfortable, secure fit

Nuisance levels are those levels below the Safe Work Australia Exposure Standards.

Available as:
Specialty Respirators

Healthcare

The 1860, 1860S and 1870+ healthcare respirators are designed to help provide respiratory protection for the wearer by reducing exposure to harmful airborne particles which are small enough to be inhaled – typically particles less than 100 microns in size. These include airborne particles that may contain biological material e.g. Bacillus anthracis, Mycobacterium tuberculosis, mould and the virus that causes Severe Acute Respiratory Syndrome (SARS), and Influenza.

As a disposable particulate respirator, it is intended to reduce wearer exposure to certain airborne particles including those generated by electrocautery, laser surgery, and other powered medical instruments.

As a surgical mask, it is designed to be fluid resistant to splash and spatter of blood and other infectious materials.

Features and Benefits

- NIOSH approved N95
- Meets CDC guidelines for Mycobacterium tuberculosis exposure control
- FDA cleared for use as a surgical mask
- BFE (Bacterial Filtration Efficiency) > 99% and PFE (Particle Filtration Efficiency) > 95% (at 0.3μm particle size) according to ASTM F2101
- Fluid resistant according to ASTM F1862 at 120 mm Hg

Safety

- Respirator contains no components made from natural rubber latex
- Nose clip mouldable to wearer’s nose shape to help reduce eyewear fogging and ensure a better seal and fit

Convenience

- Red coloured head straps for healthcare use (1870+)
- Individually wrapped to ensure cleanliness of respirator each time (1870+)

The Importance of Fit.

Disposable respirators are most effective when there is a good seal between the edges of the respirator and your face. The instant this seal is broken, protection is compromised as contaminated air can leak in through any gaps.

These fitting instructions must be followed each time a 3M™ Aura™ Particulate Respirator 9300A+ Series is worn.

1. With the reverse side up and using the tab, separate the top and bottom panels of the respirator to form a cup shape. Bend slightly at the centre of the noseclip.
2. Ensure that both panels are fully unfolded.
3a. Cup the respirator in one hand with the open side towards your face.
3b. Take both straps in your other hand. Hold the respirator under your chin, with the nosepiece facing upwards and pull the straps over your head.
4. Locate the upper strap across the crown of the head and the lower strap below your ears. The straps must not be twisted. Adjust the top and bottom panels for a comfortable fit, ensuring that the panels and tab are not folded in.
5. Using both hands, mould the noseclip to the shape of the nose to ensure a close fit and a good seal.
6. Perform a fit check by covering the front of the respirator with both hands taking care not to disturb its fit.
   - If you’re using an unvalved respirator, exhale sharply.
   - If you’re using a valved respirator, inhale sharply.
   - If at steps 3a, 3b or 4, readjust the respirator to ensure a close fit and a good seal then repeat the fit check.

Make sure that your face is clean shaven. Respirators should not be worn with stubble, beards or other facial hair under the area of the face seal as these can prevent a good seal to the face.

Make sure the panels are fully unfolded.

Respirator should be correctly positioned on your face and head.

Noseclip should be moulded around nose and cheeks to give a good seal.

Make sure that long hair is tied back and jewellery is removed so that it does not interfere with the seal to the face.

Make sure long hair is tied back and jewellery is removed so that it does not interfere with the seal to the face.

Available as:

- 1860
  Unvalved 20 respirators/box 6 boxes/case
- 1860S
  Unvalved 20 respirators/box 6 boxes/case
- 1870+
  N95
  Unvalved 20 respirators/box 6 boxes/case
Qualitative Fit Test Kits

The biggest contributor to reduced respiratory protection is poor fit. Conducting a fit test to ensure that a respirator with a tight fitting facepiece provides an adequate seal to the wearer’s face has long been considered best practice as part of a general respiratory protection program.

Reflecting this, a fit test for wearers of tight fitting respirators is now required for compliance to AS/NZS1715:2009. The 3M Qualitative Fit Test apparatus FT-10 and FT-30 are designed for fit testing disposable and half face reusable respirators fitted with particulate or combination gas/vapour and particulate filters.

Features and Benefits
- Offers a fast and easy method for performing qualitative fit testing
- No calibration of equipment required
- No modification of facepiece required
- No calibration of equipment required
- Offers a fast and easy method for performing qualitative fit testing
- Available with Sweet (FT-10) or Bitter (FT-30) solutions

Qualitative Fit Test Kits

Features and Benefits
- Offers a fast and easy method for performing qualitative fit testing
- No calibration of equipment required
- No modification of facepiece required
- Test operator can be self-taught/instructed
- Each kit contains a hood and collar assembly, two nebulisers, sensitivity solution, test solution and detailed instructions
- Replacement solutions and accessories can be purchased separately
- Available with Sweet (FT-10) or Bitter (FT-30) solutions

Product selection guide

<table>
<thead>
<tr>
<th>Industry</th>
<th>Application</th>
<th>Hazard</th>
<th>Filter Rating</th>
<th>Recommended Respirator</th>
<th>Alternative Respirator</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Sawing, Drilling, Grinding, Cutting</td>
<td>Dust, Metal particles, Filler, Concrete, Stone, Wood, Dust</td>
<td>P1</td>
<td>9310A+</td>
<td>9915</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9310A+ 8310 8310 8819 8710</td>
<td>9910 8000 9902</td>
</tr>
<tr>
<td></td>
<td>Plastering, Tunneling, Sawing, Earthmoving, Carpentry</td>
<td>Ducts</td>
<td>P1</td>
<td>9310A+</td>
<td>9915</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9310A 8310 8819 8710</td>
<td>9910 8000 9902</td>
</tr>
<tr>
<td></td>
<td>Painting, Spraying, Varnishing, Coating, Mixing</td>
<td>Water based paints – roller / brush applied Solvent vapours from spray coatings, adhesives, paint, strippers and cleaning solvents (nuisance levels)</td>
<td>GPI</td>
<td>9915V</td>
<td>8577 8247 9013</td>
</tr>
<tr>
<td>Metal Fabrication</td>
<td>Chy-Acetylene cutting, Metal pouring, Soldering, Smelting</td>
<td>Metal fume</td>
<td>P2</td>
<td>8512</td>
<td>9322 8577 8822 8210 8205</td>
</tr>
<tr>
<td></td>
<td>Welding – MIG, TIG and other</td>
<td>Welding fumes and Ozone</td>
<td>P2</td>
<td>8514</td>
<td>8577</td>
</tr>
<tr>
<td>Agricultural / Forestry</td>
<td>Sawing, Cropping, Feeding livestock</td>
<td>Wood dust, Grain dust, Cotton dust</td>
<td>P1</td>
<td>9310A+</td>
<td>9915</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9310A 8310 8819 8710</td>
<td>9910 8000 9902</td>
</tr>
<tr>
<td></td>
<td>Handling Infected animals, Cleaning animal shells, Composting</td>
<td>Bacteriols, Bacteria, Fungus</td>
<td>P2</td>
<td>9322A+</td>
<td>8322 8320 8822 8210 8205</td>
</tr>
<tr>
<td></td>
<td>Spraying pesticide, Herbicide, Fungicide: *low vapour pressure organic compounds</td>
<td>Mist, Dust</td>
<td>GPI</td>
<td>9915V</td>
<td>8577 8247 9013</td>
</tr>
<tr>
<td>Mining / Quarrying</td>
<td>Drilling, Blasting, Plant operators</td>
<td>Duct</td>
<td>P1</td>
<td>9310A+</td>
<td>9915</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9310A 8310 8819 8710</td>
<td>9910 8000 9902</td>
</tr>
<tr>
<td>Healthcare</td>
<td>Infection Control</td>
<td>Infectious aerosols, Tuberculosis Bacteria</td>
<td>P2</td>
<td>9320A+ or 1870+</td>
<td>8320 8232 8210 8205</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Duct, mist and fumes generated during handling of cereals &amp; non-cereal flours, nuts, additives, spices, condiments, coffee, sugar, egg and fish proteins, confectonary, animal &amp; bird feed.</td>
<td>P2</td>
<td>9422+</td>
<td>9002A 9002A8</td>
</tr>
<tr>
<td></td>
<td>Food handling/fruit &amp; vegetable processing/</td>
<td>Food handling/fruit &amp; vegetable processing/</td>
<td>P2</td>
<td>9320A+ or 1870+</td>
<td>8320 8232 8210 8205</td>
</tr>
<tr>
<td></td>
<td>Manufacturing/Medicinal and pharmaceutical product manufacturing, clearing &amp; maintenance</td>
<td>Food handling/fruit &amp; vegetable processing/</td>
<td>P2</td>
<td>9422+</td>
<td>9002A 9002A8</td>
</tr>
<tr>
<td></td>
<td>Shaping/tablet formation, medicinal and pharmaceutical product manufacturing, clearing &amp; maintenance</td>
<td>Shaping/tablet formation, medicinal and pharmaceutical product manufacturing, clearing &amp; maintenance</td>
<td>P2</td>
<td>9422+</td>
<td>9002A 9002A8</td>
</tr>
<tr>
<td></td>
<td>Pharmacological during the production of prescription drugs</td>
<td>Pharmacological during the production of prescription drugs</td>
<td>P2</td>
<td>9422+</td>
<td>9002A 9002A8</td>
</tr>
<tr>
<td></td>
<td>Exposure to:</td>
<td></td>
<td></td>
<td>**Nuisance levels of Acid Gases – Chlorine, Sulfur dioxide, Hydrogen Fluoride</td>
<td>9916 9928 9915 9940</td>
</tr>
</tbody>
</table>

* Low vapour pressure (below 1.3Pa @ 25°C)
** Nuisance levels are those levels below the Safe Work Australia or the New Zealand Exposure Standards.
This selection guide is only an outline designed to focus on products which may be appropriate for typical applications. It should not be used as the only means of selecting a product. Selection of the most appropriate personal protective equipment (PPE) will depend on the particular situation and should be made only by a competent person knowledgeable of the assessed risks, actual working conditions and limitations of PPE. Details regarding performance and limitations are set out on the product packaging and user information. If in doubt, contact a safety professional or 3M.
For respiratory training and advice please contact your local 3M representative.
Training and Support

3M's team of Certified Occupational Hygienists and Technical Specialists offer support and training to meet the needs of our customers. They can provide customers:
- Initial and ongoing technical support
- Advice and training for your company, including audits for your workplace
- Fit testing coordination for respiratory and hearing protection

No matter how effective a piece of PPE is, it will offer little or no protection if it is not fitted and worn correctly. Proper inspection, cleaning and storage is vital for safety equipment that protects a worker's health and well being. That is why 3M offers training programs that explain the correct way to fit, inspect, clean and store the PPE designed and manufactured by our company.

3M TechAssist

3M TechAssist is the ideal point of contact for your questions, especially when you require a prompt answer. Supported by trained staff, Tech Assist is an immediate link to the worldwide resources of 3M. Customers can contact TechAssist to answer questions on product information, technical advice, guidance with product selection, Australian Standards and other important information they need to know on a day-to-day basis.

You can contact 3M's TechAssist service:

**Australia**
TechAssist Helpline on 1800 024 464 or by email at techassist@mmm.com

**New Zealand**
TechAssist Helpline on 0800 364 357

Nationwide Distributor Network

3M distributes our wide range of workplace safety products through a distributor network which includes over 250 stores and branches throughout Australia.

To find a 3M safety distributor near you, visit our website:

**Australia**
www.3M.com/au/ppesafety or ring 3M customer service on 1300 363 565

**New Zealand**
www.3M.com/nz/ppesafety or ring 3M customer service on 0800 252 627