



Science.  
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# Respiratory Protection

3M offers you a wide range of disposable, reusable, powered and supplied air respirators for protection against gases, vapours and particulates. Allowing you to choose the level and type of protection, comfort, style and maintenance requirements you need to work safely, comfortably and effectively.

[#3MScienceOfSafety](#)

# Types of respiratory protection equipment (RPE) from 3M.

There are three main types of RPE available from 3M:



### Filtering Facepiece/Disposable Respirators

- Ideal for most industries and applications where wearers require particulate protection e.g. dusts and mists
- A choice of cup-shape or flat-fold, valved or unvalved and also the option to protect against ozone and nuisance\* levels of organic vapours and acid gases
- Lightweight and maintenance free
- Comfortable, convenient and easy to use



### Reusable Half and Full Facepiece Respirators

- Offer protection against particulates, gases and vapours and combinations of the two
- These respirators have integrated or replaceable filters and parts. They may be cleaned, stored and reused provided they are in good condition
- Full facepiece respirators also offer integrated eye and face protection
- Many models are fully maintainable



### Powered Air & Supplied Air Systems

- Offer protection against dusts, mists, fumes, gases, vapours and combination hazards e.g. paint spray
- Can offer integrated eye, face, head, neck and hearing protection in one system avoiding incompatibility issues between items of PPE
- Modular system allows you to mix and match parts as your environment or application changes, giving you the ultimate in flexibility and ease of use
- No increase in breathing resistance means more comfortable and longer wear time
- Usable by a wide range of users regardless of facial characteristics; shape, size etc.

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



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# Filtering Facepiece/Disposable Respirators

Comfortably breathing clean, safe air is important for workers' health and workplace morale. With this in mind we have designed a range of 3M™ Disposable Respirators using science to increase comfort, breathability and protection. In combination with ergonomic design, a wide range of technologies including the 3M™ Cool Flow™ Comfort Valve help to deliver comfortable protection with easier breathing and reduced heat build-up.

## Airborne hazards.

Finding the right protection...



3M™ Aura™ 9322A+  
Particulate Respirator



3M™ 8322  
Particulate Respirator



3M™ Aura™ 9312A+  
Particulate Respirator



3M™ 8812  
Particulate Respirator



3M™ 9422+  
Particulate Respirator



3M™ 8710  
Particulate Respirator



3M™ 8822  
Particulate Respirator

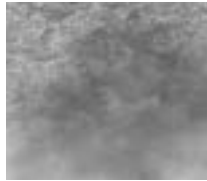


3M™ 9923V  
Particulate Respirator



### 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.

## Our technology.



In 1969 3M invented the Filtering Facepiece/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'.

### Advantages of 3M™ Filtering Facepiece/Disposable Respirators



#### 3M™ Cool Flow Valve™

Helps release warm and moist exhaled breath from inside the respirator.



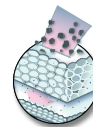
#### 3M™ High Performance Filter Media

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



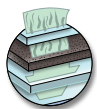
#### 3M™ Foldable Three-Panel Design

This design offers improved comfort, fit and communication – plus the convenience of a foldable respirator. (9300A+ series)



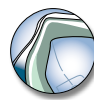
#### 3M™ Clog-Resistant Welding Respirators

Particles are trapped throughout the lofty outer layer and then by the inner filter. This prolongs respirator life while maintaining ease of breathing.



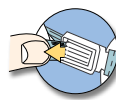
#### Activated Carbon

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.

# Cool flow valve.

Comfort starts with easy breathing.

When performing physically demanding work, finding both reliable and comfortable respiratory protection is key to helping keep workers safe. With 3M filtering facepiece/disposable respirators there's a solution: 3M™ Cool Flow™ Valve technology.

3M disposable and reusable respirators with the 3M Cool Flow Valve are designed to increase breathing comfort. The valve cover helps direct exhaled air downward and allows for easy breathing. When you work in hot, humid and physically demanding environments, a little more comfort makes a difference.



**3M™ Cool Flow™ Exhalation Valve helps direct exhaled air downward and allows for easy breathing.**



### Inhalation

As the wearer inhales, air is pulled through the respirator while the valve remains closed, providing the same level of respiratory protection as a respirator without a valve.



### Exhalation

As the wearer exhales, the respirator is filled with warm, moist air. The exhaled air exits through the 3M™ Cool Flow™ Valve and filter media, resulting in easy breathing for the wearer.

This is suggested when physically demanding work causes heavy breathing.



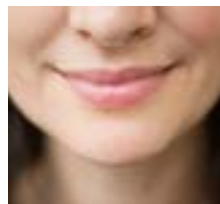
# The importance of comfort.

To make sure that the respirator protects you, it must be worn during periods of exposure. Make sure that you choose a respirator that you can wear comfortably for your entire shift.



### Face and head comfort

The respirator's edge should be flexible and the shape and size should cover the nose, mouth and chin without causing excessive pressure. A headband material which provides a good, even tension across the head can ensure a comfortable, secure fit for a range of head sizes.



### Skin comfort

Skin comfort will be affected by the smoothness and softness of the inner material in contact with the skin - especially over a long period of time. A soft inner face seal and sweat absorbent nose foam will provide greater comfort. Rough or hard materials, coupled with a high temperature inside the respirator may be itchy and unpleasant.



### Offers easy exhalation

Helps release warm and moist exhaled breath from inside the respirator.



### Lightweight

Take advantage of technological innovation and choose a lightweight respirator for optimal comfort.



### Breathing ease

An efficient exhalation valve and high-efficiency, low breathing resistance filter material will help you to breathe comfortably.



### Compatibility with other PPE

Make sure that the respirator you select fits well with the other PPE required for your work, such as eyewear and hearing protection to ensure maximum comfort.

# Selecting the right product.

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

### 1. Identify the hazards




Industry	Application	Hazard	Filter Rating
General	Sanding, cutting, drilling	Rust, metal particles, filler, concrete, stone, wood	P1
	Sanding, cutting, drilling	Crystalline silica, cement, wood, steel, paints, varnish, anti-rust coating, steel, stainless steel, anti-fouling varnish	P1 P2
	Low temperature oil spraying, lubricating	Mineral oil, agricultural mineral oil, horticultural mineral oil, oil foam spray, metal working fluid	
Construction	Sanding, cutting, drilling	Crystalline silica	P1
	Plastering, tunnelling, sawing, earthmoving, carpentry	Dust, sawdust	
	Painting, spraying, varnishing, coating, mixing	Water based paints, roller/brush applied spray coatings, adhesives, cleaning solvents (nuisance* levels)	GP1
Metal Fabrication	Oxy-acetylene cutting, metal pouring, soldering, smelting, welding, work with glass and mineral fibres	Metal fume	P2
Welding	MIG, TIG, mild steel, zinc (autogen, MIG/MIK) Stainless steel (electrodes), soldering	Welding fume and ozone	P2
Agricultural & Forestry	Sawing, cropping, cotton ginning, feeding livestock, allergies	Wood dust, grain dust, Cotton dust, animal dander	P1
	Handling infected animals, cleaning animal sheds, composting, waste sorting	Bioaerosols, bacteria, fungus, animal dander	P2
	Spraying pesticide, herbicide, fungicide: *low vapour pressure organic compounds	Paint spray, mist, dust, pesticide (water based)	GP1
Mining & Quarrying	Drilling, blasting, plant operators	Dust	P1
	Drilling, blasting, plant operations	Diesel exhaust/smoke	P2
Healthcare	Infection control	Infectious aerosols, allergies, pollen, mould/fungus	P2 N95
Aluminium Smelting & Cleaning	Chlorine based cleaning, smelting	Acid gases	P2
	Chlorine based cleaners	Acid gases	P1
Agricultural & Forestry	Pesticide spraying, solvent cleaning, welding	Organic vapour	GP2
	Pesticide spraying, solvent cleaning	Organic vapour	GP1
Food & Beverage, Manufacturing, Pharmaceutical	Food handling, fruit & vegetable processing, manufacturing pharmaceutical - shaping, tablet formation, cleaning & maintenance	Dusts, mists and fumes generated during handling of cereal & non-cereal flours, nuts, additives, spices, condiments, coffee, sugar, egg and fish proteins, confectionery, animal & bird feed	P1
	Shaping/tablet formation, medicinal and pharmaceutical product manufacturing, cleaning & maintenance	Pharmaceuticals during the production of prescription drugs	

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



# Filtering Facepiece/Disposable Respirators

## 2. Assess the risk

-  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. *N95 is a particulate respirator rating per the US National Institute for Occupational Safety and Health (NIOSH) 42 CFR 84.*
-  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.

## 3. Select the right respirator

### Choose a valved/ unvalved respirator

Once you have selected the protection factor you require, you can then consider whether you need a cup-shaped respirator, or a foldable respirator and whether it is valved or not.

#### Benefits of a Valved Respirator





- Offers easy exhalation
- Helps release warm and moist exhaled breath from inside the respirator
- Suitable for physically demanding environments
- Helps direct exhaled air downward

#### Benefits of a Unvalved Respirator

- Lower unit cost
- Reduces potential for wearer contamination of their environment

### Choose a style

You can choose from: Comfort, Classic and Basic Series. Specialty respirators that provide comfortable protection against particles and certain nuisance\* level gases and vapours are also part of our range as are lightweight and effective welding respirators. This wide selection enables you to select the respirator to suit your environment.

			
<b>3M™ Comfort Series</b> <ul style="list-style-type: none"><li>• Designed to help provide comfortable reliable protection</li><li>• Compatibility with a variety of eyewear</li><li>• Unique designs</li></ul>	<b>3M™ Classic Series</b> <ul style="list-style-type: none"><li>• Traditional cup shape</li><li>• Lightweight, comfortable and effective</li><li>• Durable collapse resistant shell</li></ul>	<b>3M™ Welding &amp; Specialty Respirators</b> <ul style="list-style-type: none"><li>• Activated carbon layer</li><li>• Comfort with technology</li><li>• High quality performance</li></ul>	<b>3M™ Basic Series</b> <ul style="list-style-type: none"><li>• Reliable and convenient</li><li>• Lightweight and economical</li><li>• Protection you can afford</li></ul>

## 4. Fit Test

### A respirator cannot protect you fully 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 document AS/NZS 1715:2009.

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

# Filtering Facepiece/Disposable Respirator Range Overview

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, bushfire smoke particulates.

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.

**P2** Mechanically and Thermally generated particulates e.g. welding fume, particles from bushfire smoke, diesel particulate matter

**P1** Mechanically generated particulates e.g. wood dust, grain dust, cotton dust

	Valved		Non-Valved		Valved		Non-Valved	
3M Comfort Series								
3M Classic Series								
3M Welding & Specialty Series G Rated or Nuisance Level* Organic Vapours								
3M Specialty Series Nuisance Level* Acid Gases								
3M Basic Series								

## N95^

	Level 3 160 mm/Hg Fluid Resistance		Level 2 120 mm/Hg Fluid Resistance		Level 1 80 mm/Hg Fluid Resistance	
3M Healthcare Surgical Respirators						

Refer to catalogue sections for further information on each style.

\*Nuisance levels are those levels below the SafeWork Australia Exposure Standards.  
 ^N95 is a particulate filter rating per US National Institute for Occupational Safety & Health (NIOSH) 42 CFR 84. 1870+, 1860, 1860S, 1804 and 1804S is entered in the ARTG 255656. Refer to "Comparison of P2, N95, FFP2, KN95 and other Filtering Facepiece Respirator classes" technical bulletin for further information.  
 3M Comfort, Classic & Basic Series products have a 5 year shelf life from date of manufacture. 3M Welding & Specialty (Organic Vapour and Acid Gas nuisance levels) Series products have a 3 year shelf life from date of manufacture. 3M Healthcare Surgical Respirators have a 5 year shelf life from date of manufacture.

# Comfort Series 9300A+ Aura™ Particulate Respirators

The 3M™ Aura™ Filtering Facepiece/Disposable Respirators 9300+ are the result of 3M's continuous drive to improve comfort. They are packed with ground-breaking ideas, technologies and materials and have also retained many of the features that helped make the original 9300 series hugely popular. Features include low breathing resistance filter technology for easier breathing throughout your shift, an embossed top panel to reduce fogging of eyewear, a sculpted edge for improved compatibility with eyewear and a chin tab to improve ease of fitting.

### 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

- Helps release warm and moist exhaled breath from inside the respirator
- Suitable for physically demanding environments
- Offers easy exhalation

#### Convenience

- Flat-folded: easy to store when not in use
- Hygienic individual packaging helps protect the respirator from contamination before use
- 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

- Adjustable noseclip helps provide a custom secure seal
- Curved low profile design conforms well to nose and eye contours, allowing more room for eyewear
- Helps provide a good field of vision
- Improves compatibility with eyewear

#### Face and head comfort

- 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 water/sweat absorbent nose foam material is soft on the skin
- Smooth inner cover web helps to create a comfortable environment for the face
- 5 year shelf life from date of manufacture



3M Order Code	Model #	Description
XA010017854	9322A+	3M™ Aura™ Particulate Respirator, P2 Valved
XA010017847	9320A+	3M™ Aura™ Particulate Respirator, P2
XA010017870	9312A+	3M™ Aura™ Particulate Respirator, P1 Valved
XA010017839	9310A+	3M™ Aura™ Particulate Respirator, P1
AT010623091	9322A+	3M™ Aura™ Particulate Respirator, P2 Valved, Vend Pack

# Filtering Facepiece/Disposable Respirators

## Comfort 8322 Particulate Respirator

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. 5 year shelf life from date of manufacture.



3M Order Code	Model #	Description
70071623162	8322	3M™ Cupped Particulate Respirator, P2, valved

## Comfort Series 9422+ Aura™ Particulate Respirators

3M™ Aura™ Filtering Facepiece/ Disposable Respirators 9422+ are specifically designed for the food industry, coloured bright blue for easy identification and constructed without staples or small detachable parts. 5 year shelf life from date of manufacture.



3M Order Code	Model #	Description
GT500079519	9422+	3M™ Aura™ Flat Fold Particulate Respirator, P2, valved

## Welding Respirator

The 3M Welding Respirator provides lightweight, effective, and comfortable respiratory protection. This durable respirator is designed specifically for welding applications to provide protection against ozone and welding fumes, plus relief from nuisance\* odours. It is resists clogging and does not require costly and time-consuming maintenance. Like our other disposable respirators, the welding respirator is compatible with 3M eyewear and hearing products. It is also compatible with 3M™ Speedglas™ Welding Shields. 3 year shelf life from date of manufacture.



3M Order Code	Model #	Description
70070799534	8214	3M™ Cupped Particulate Welding Respirator, N95, with Nuisance* Level Organic Vapour Relief, valved

## Basic Series VFlex™ Particulate Respirator

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. 5 year shelf life from date of manufacture.



3M Order Code	Model #	Description
70071676954	1804	3M™ VFlex Particulate Respirator N95
70071676962	1804S	3M™ VFlex Particulate Respirator Small N95

## Classic Series 8000 Series Particulate Respirators

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 in AS/NZS 1716. Still widely used today, this respirator is trusted by millions of workers all over the world. 5 year shelf life from date of manufacture.



3M Order Code	Model #	Description
WX700900359	8822	3M™ Cupped Particulate Respirator, P2, valved
WX700900011	8210	3M™ Cupped Particulate Respirator, P2
XA010000512	8110S	3M™ Cupped Particulate Respirator, P2 - small size
WX700900243	8812	3M™ Cupped Particulate Respirator, P1, valved
WX700900029	8710	3M™ Cupped Particulate Respirator, P1

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

# Filtering Facepiece/Disposable 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 at concentrations 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.

Activated Carbon Layer - all of these specialty products offer an additional activated carbon layer to filter out ozone and nuisance\* levels of organic vapour

3 year shelf life from date of manufacture.



9913



8577



8247



9923V



9542V



9913V

3M Order Code	Model #	Description
WX700900037	9913V	3M™ Cupped Particulate Respirator, GP1 with Nuisance* Level Organic Vapour Relief, valved
WX700900284	9913	3M™ Cupped Particulate Respirator, GP1 with Nuisance* Level Organic Vapour Relief
AT010601691	8577	3M™ Cupped Particulate Respirator, GP2, with Nuisance* Level Organic Vapour Relief, valved
WX700900169	8247	3M™ Cupped Particulate Respirator, GP2, with Nuisance* Level Organic Vapour Relief
WX700901902	9923V	3M™ Cupped Particulate Respirator, P2, with Nuisance* Level Organic Vapour Relief, valved
XY003892821	9542V	3M™ Flat Fold Particulate Respirator, P2, with Nuisance* Level Organic Vapour Relief, valved

## 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.

3 year shelf life from date of manufacture.



8246



9916



9926ANZ

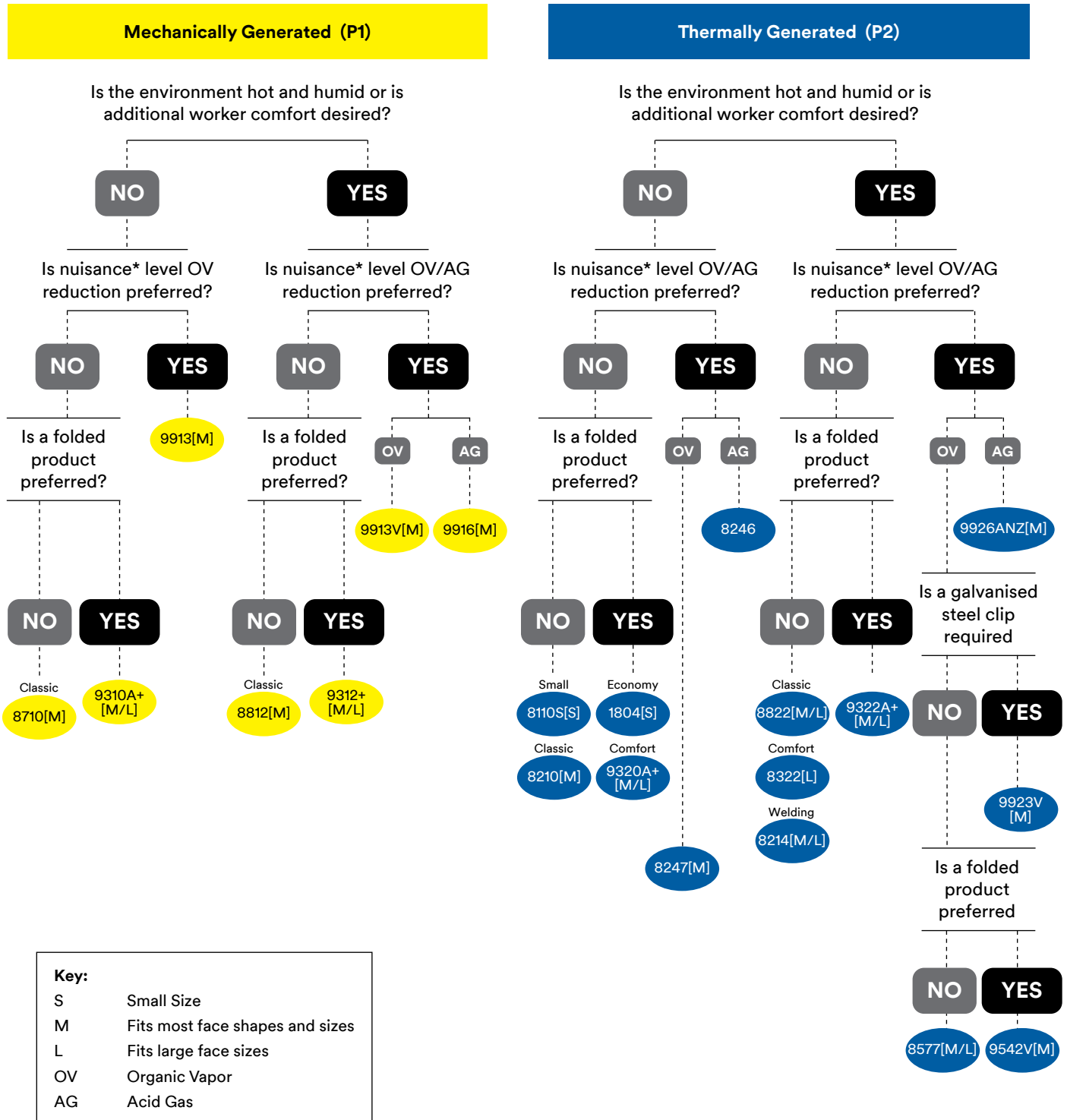
3M Order Code	Model #	Description
WX700900318	9926ANZ	3M™ Cupped Particulate Respirator, P2 with Nuisance* Level Acid Gas Relief, valved
WX700900151	8246	3M™ Cupped Particulate Respirator, P2, with Nuisance* Level Acid Gas Relief
WX700900276	9916	3M™ Cupped Particulate Respirator, P1 with Nuisance* Level Acid Gas Relief, valved

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

## Selection flowchart.

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

### What type of particles are in your environment?



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

## The importance of fit.

Filtering Facepiece/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.



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



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.



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.



- 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.



5. Using both hands, mould the noseclip to the shape of the nose to ensure a close fit and a good seal.



The respirator may not fit as well if you pinch the noseclip using one hand. Use two hands.



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 air leaks around the nose, readjust the noseclip to eliminate leakage then repeat the fit check. If air leaks at the respirator edges, work the straps back along the sides of the head to eliminate leakage then repeat the fit check.
  - If you cannot achieve a proper fit, DO NOT enter the hazardous area. Consult your supervisor.

# Fitting instructions for cupped respirator style.

Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to respiratory contaminants. Disposable respirators are only 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 Cupped respirator is worn.



Tie back long hair and remove jewellery so that it does not interfere with the seal to the face.

Men: Be clean shaven, do not wear with beards or other facial hair.



1a Pre-Stretch entire length of strap by pulling between two hands.



1b Cup respirator in one hand, with fingertips positioned at nosepiece and straps hanging below hand.



2 Place the respirator in one hand and against your face. Position the respirator under the chin with the nosepiece across the bridge of your nose.



3a Pull the top strap resting it high over the crown of your head.



3b Pull the bottom strap over your head then position it around your neck and below your ears. Straps must not be twisted.



4 Using both hands, mould nose clip to the shape of the nose bridge by pushing inwards while moving your fingertips down both sides of the nosepiece.



5 Face Fit Check - every time the respirator is worn and before entering the hazardous area.



The respirator is correctly worn as shown here.



**Pinching the nose clip using one hand may result in a less effective respirator performance. Use two hands.**

Cover front of the respirator with both hands taking care not to disturb its fit. When using an unvalved respirator, exhale sharply. If the respirator bulges slightly and no air leaks are detected between the face and the respirator, a proper seal has been obtained. Then work may proceed. When using a valved respirator, inhale sharply. The respirator should collapse slightly indicating a proper seal has been obtained. Then work may proceed.

Also follow "Warning about Face Fit Check" guideline to right.



### Warning About Face Fit Check

- If air leaks around the nose, re-adjust the nose clip to eliminate leakage by repeating step 4. Repeat Face Fit Check
- If air leaks at the respirator edges, work the straps back along the sides of your head to eliminate leakage. Repeat Face Fit Check.
- If you cannot achieve a proper fit, repeat steps 2 - 5.
- If you cannot achieve a proper fit, DO NOT enter the hazardous area. Consult your supervisor.





Science.  
Applied to Life.™



# 3M™ Healthcare Surgical Respirators

Take care of yourself so you can continue to care for others. Your safety is essential in order to deliver care to your patients. You care for them. You protect them. We share a common goal: Making respiratory protection the highest priority

## Healthcare Surgical Respirators

The 1870+, 1860, 1860S, 1804 and 1804S 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. 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 these products are also 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
- 3M™ Advanced Electrostatic Media (AEM) - Highly charged microfibres enhance the capture of airborne particles while allowing you to breathe easier
- 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
- 1870+, 1860, 1860S, 1804 and 1804S is entered in the ARTG 255656
- 5 year shelf life from date of manufacture.



1870+



1860



1860S



1804



1804S

3M Order Code	Model #	Description	Fluid Resistance Level
XA010033554	1870+	3M™ Flat Fold Particulate Respirator & Surgical Mask, N95/P2 with Fluid Resistance	Level 3
AT010607219	1860	3M™ Cupped Particulate Respirator & Surgical Mask (standard size), N95/P2 with Fluid Resistance - standard size	Level 2
XA010000546	1860S	3M™ Cupped Particulate Respirator & Surgical Mask (small size), N95 with Fluid Resistance	Level 1
70071676954	1804	3M™ VFlex™ Healthcare Particulate Respirator and Surgical Mask, N95	Level 1
70071676962	1804S	3M™ VFlex™ Healthcare Particulate Respirator and Surgical Mask, N95 Small	Level 1



# Surgical Respirators



## 3M™ Aura™ Health Care Particulate Surgical Respirator 1870+

- Individually wrapped to ensure cleanliness of respirator each time
- Flat-fold design allows for convenient storage prior to use
- Embossed top panel helps reduce eyewear fogging
- Sculpted top panel allows more room for eyewear
- Innovative chin tab for ease of positioning, donning, adjustment
- Highest level of fluid resistance according to ASTM F1862 at 160 mm Hg
- 1870+ is entered in the ARTG 255656



## 3M™ Health Care Particulate Surgical Respirator 1860 and 1860S

- Collapse resistant cup shape design
- Braided headbands, cushioning nose foam, and light weight construction for comfortable wear
- Available in 2 sizes to fit a broad range of faces (1860 and 1860S)
- Fluid resistant according to ASTM F1862 at 120 mm Hg (1860) and 80mm Hg (1860S)
- 1860 and 1860S is entered in the ARTG 255656



## 3M™ VFlex™ Health Care Particulate Surgical Respirator 1804 and 1804S

- Uniquely designed tabs for respirator positioning on the face
- Flatfold design allows for convenient storage prior to use
- Pleats help increase surface area for ease of breathing and flex with mouth movement while talking
- Available in 2 sizes to fit a broad range of faces (1804 and 1804S)
- Fluid resistant according to ASTM F1862 at 80 mm Hg
- 1804 and 1804S is entered in the ARTG 255656.

### Potential settings and applications

Operating Rooms, Clinics, TB Wards, Patient Care, Labor and Delivery, Infection Control Practices, Laboratory, emergency or pandemic preparedness planning, stockpiling, etc.





**3M Australia Pty Ltd**

Bld A, 1 Rivett Road  
North Ryde, NSW 2113  
TechAssist Helpline: 1800 024 464  
Customer Services: 1300 363 565  
Email: [techassist@mmm.com](mailto:techassist@mmm.com)  
[3M.com.au/ppesafety](http://3M.com.au/ppesafety)

**3M New Zealand Limited**

94 Apollo Drive  
Rosedale, Auckland 0632  
TechAssist Helpline: 0800 364 357  
Customer Services: 0800 252 627  
Email: [techassist@mmm.com](mailto:techassist@mmm.com)  
[3M.com/nz/ppesafety](http://3M.com/nz/ppesafety)

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