

Respiratory Protection

3M™ Disposable Respirators



A heritage
of protection,
comfort and fit





Solutions for Worker Safety

As one of the world's leading suppliers of safety and protective equipment, 3M's goal is to ensure that we satisfy your needs through the provision of exceptional products, expertise, quality and service excellence.

Our global technology, manufacturing and knowledge network allow us to provide superior design, cross-over compatibility, expertise, comprehensive support and a continuously evolving range of safety solutions.

We provide solutions for work situations that require basic personal protective equipment through to environments that call for the most sophisticated and comprehensive protection. Whether the customer is a tradesman, a medium-sized business or a company employing thousands of workers, 3M has a workplace safety solution to meet your needs.

If we can make your life and that of your workforce easier, healthier, safer and more productive we are moving in the right direction.

The 3M range of solutions for worker safety includes:

- Respiratory Protection
- Hearing Protection
- Eye Protection
- Welding Protection
- Spill Management
- Worker Visibility
- Detection & Monitoring

3M Safety brands you can trust:





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3M™ Disposable Respirators

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 patented technologies that have been incorporated throughout our comprehensive range of disposable respirators.

Workers want 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 1716:2003 'Respiratory protective devices'.

Selecting the right 3M disposable respirator

3M's comprehensive range of disposable particulate respirators: Basic, Classic and Comfort Series ensure that we have the right product at the right price to meet customer needs. Specialty respirators that provide comfortable protection against particles and certain 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.

A choice of respirators with P1 or P2 protection is available depending on the nature of workplace respiratory hazards.



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

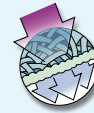
- Activated carbon layer
- Comfort with technology
- High quality performance

The selection guide on page 5 provides suggestions for which 3M disposable respirator to use for various applications.

3M TechAssist, available to users of 3M products, can provide advice and guidance to help you obtain appropriate respiratory protection for the task at hand.

Australian/New Zealand Standard AS/NZS 1715:2009 'Selection, use and maintenance of respiratory protective equipment' provides guidance to users on the principles and requirements for effective use of respiratory protection in the workplace.

Advantages of 3M Disposable Respirators



3M™ High Performance Filter Media

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



3M™ Cool Flow Valve

An efficient exhalation valve minimises heat and moisture build up, particularly in hot and humid work conditions.



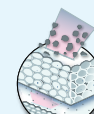
Face Seal

Soft and secure. The face seal on 3M™ Soft Seal Respirators and sweat absorbent nose foam will provide greater comfort.



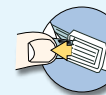
3M™ Foldable Three-Panel Design

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



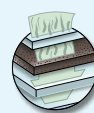
3M™ Clog-Resistant Welding Respirators

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



Adjustment Buckle Straps

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



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.

Respirator Selection Chart

Industry	Application	Hazard	Filter Rating	Recommended Respirator	Alternative Respirator		
					Comfort	Classic	Basic
General	Sanding, Drilling Grinding, Cutting	Rust, Metal particles, Filler, Concrete, Stone, Wood, Dust	P1	9312	9310 8312 8310	8812 8710	K101 8000 9102
Construction	Plastering, Tunnelling, Sawing, Earthmoving, Carpentry	Dusts	P1	9312	9310 8312 8310	8812 8710	K101 8000 9102
	Painting, Spraying, Varnishing, Coating, Mixing	Water based paints – roller / brush applied	GP1	9913V	8577 (GP2)	8247 9913	
Metal Fabrication	Oxy-Acetylene cutting Metal pouring, Soldering	Metal fume	P2	8512	9322 8577	8822 8210	9042AUS 8205
	Welding – MIG, TIG and other	Welding fumes and Ozone	P2	8514	8577		9042AUS
Agricultural / Forestry	Sawing, Cropping, Feeding livestock	Wood dust, Grain dust, Cotton dust	P1	9312	9310 8312 8310	8812 8710	K101 8000 9102
	Handling infected animals, Cleaning animal sheds, Composting	Bioaerosols, Bacteria, Fungus	P2	9322	8322 9320 8320	8822 8210	K102 8205
	Spraying pesticide, Herbicide, Fungicide: <i>*low vapour pressure organic compounds</i>	Mist, Dust	GP1	9913V	8577 (GP2)	9913	9042AUS
Mining / Quarrying	Drilling, Blasting, Plant operators	Dust	P1	9312	9310 8312 8310	8812 8710	K101 9102
Healthcare	Infection Control	Infectious aerosols	P2	9320	8320	8210	8205
Other	Exposure to:	**Nuisance levels of Acid Gases – Chlorine, Sulfur dioxide, Hydrogen fluoride	P1	9916	9926	9915 8246	

P1 or P2 Protection?

P1 is the rating given to a respirator which meets AS/ NZS1716:2003 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/NZS1716:2003 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.

* Low vapour pressure (below 1.3Pa @ 25°C)

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

3M™ Disposable Respirators



Comfort Series

9300 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 9300 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

Foldable – 3-Panel Design

- + Accommodates greater facial movement during speech so is less likely to leak
- + Easy to store when not in use
- + Provides comfort and style without compromising performance

Nose Foam

- + Made of sweat absorbent material
- + Soft on the skin
- + Adjustable nose clip helps reduce eyewear fogging and ensures a better seal and fit

3M™ High Performance Filter Media

- + Effective filtration combined with low breathing resistance
- + Consistent high quality performance

3M™ Cool Flow Valve

(9322 & 9312)

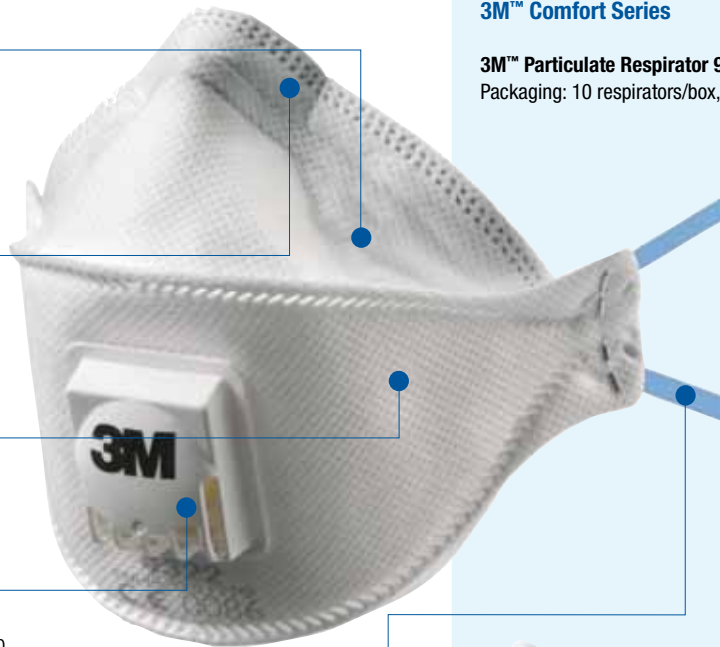
- + Effective removal of heat and moisture build up provides a cooler and more comfortable wear
- + Removes exhaled air and minimises the occurrence of misting eyewear

Straps

- + Even strap pressure improves comfort on the neck, face and head with a secure feel
- + Colour coded to indicate performance level
- + Latex free

Individual Packaging

- + Hygienic packaging protects the respirator from contamination before use
- + Allows practical storage and dispensing in the workplace



3M™ Comfort Series

3M™ Particulate Respirator 9322 (P2)

Packaging: 10 respirators/box, 12 boxes/case



3M™ Particulate Respirator 9320 (P2)

Packaging: 20 respirators box, 12 boxes/case



3M™ Particulate Respirator 9312 (P1)

Packaging: 10 respirators/box, 12 boxes/case



3M™ Particulate Respirator 9310 (P1)

Packaging: 20 respirators/box, 12 boxes/case





Comfort Series

8300 Particulate Respirators

The 8300 series is 3M's most recent addition to our range of disposable respirators. The 8300 series is designed with 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 more comfortable around the 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



3M™ Comfort Series

3M™ Particulate Respirator 8322 (P2)

Packaging: 10 respirators/box, 8 boxes/case



3M™ Particulate Respirator 8320 (P2)

Packaging: 10 respirators/box, 8 boxes/case



3M™ Particulate Respirator 8312 (P1)

Packaging: 10 respirators/box, 8 boxes/case



3M™ Particulate Respirator 8310 (P1)

Packaging: 10 respirators/box, 8 boxes/case

3M™ Disposable Respirators



Classic Series

8000 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



3M™ Classic Series

3M™ Particulate Respirator 8822 (P2)

Packaging: 10 respirators/box, 24 boxes/case



3M™ Particulate Respirator 8210 (P2)

Packaging: 20 respirators box/8 boxes/case



3M™ Particulate Respirator 8812 (P1)

Packaging: 10 respirators/box, 24 boxes/case



3M™ Particulate Respirator 8710 (P1)

Packaging: 20 respirators/box, 8 boxes/case



Basic Series

K100 Particulate Respirators

With the new 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



3M™ Basic Series

3M™ Particulate Respirator K102 (P2)

Packaging: 20 respirators/bag, 10 bags/case



3M™ Particulate Respirator K101 (P1)

Packaging: 20 respirators/bag, 10 bags/case

3M™ Disposable Respirators



Basic Series

8000 Particulate Respirators

You don't have to sacrifice reliability, quality or service just to save on your protective equipment. With 3M's new 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.

Features and Benefits

Adjustable Nose Clip

- + Reduces eyewear fogging and helps ensure a better seal and fit

Two-Point Strap

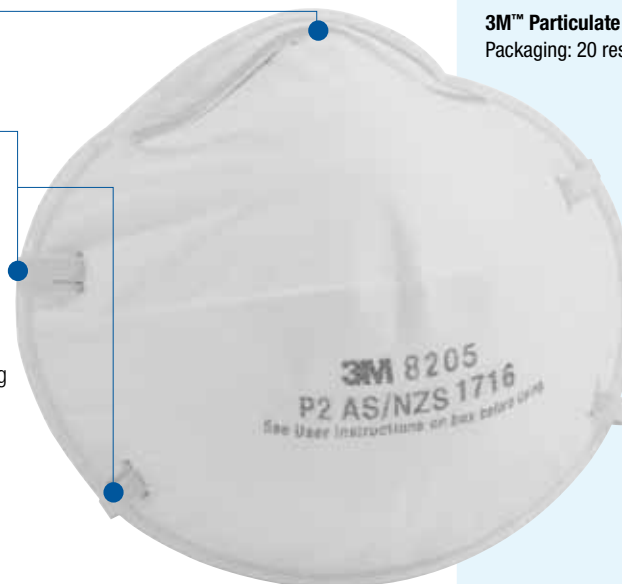
- + Helps provide a secure fit
- + Latex free

Lightweight Construction

- + Enhances worker comfort and wear time

3M™ High Performance Filter Media

- + Effective filtration combined with low breathing resistance
- + Consistent high quality performance



3M™ Basic Series

3M™ Particulate Respirator 8205 (P2)

Packaging: 20 respirators/box, 8 boxes/case



3M™ Particulate Respirator 8000 (P1)

Packaging: 30 respirators/box, 8 boxes/case

Available in 2011



Basic Series

VFlex™ Particulate Respirators

The VFlex is the newest 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

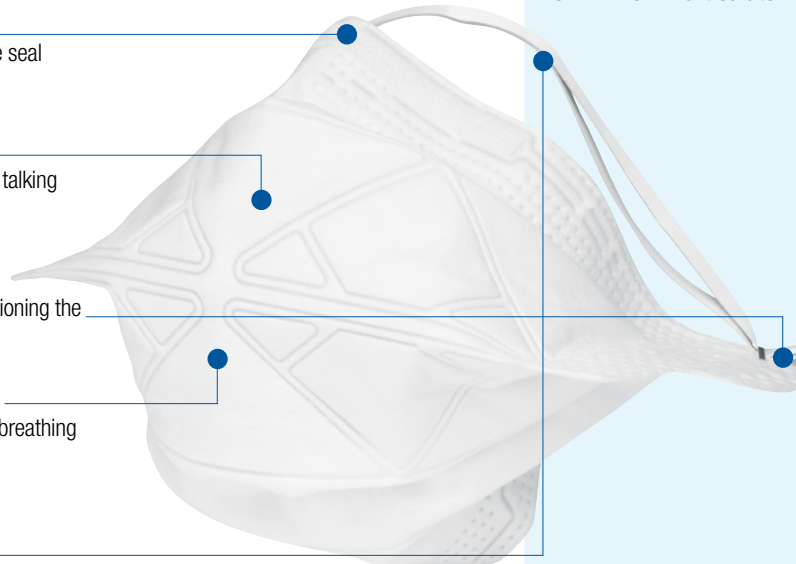
- + Contains no natural rubber latex components

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



3M™ VFlex™ Particulate Respirators

3M™ VFlex™ Particulate Respirator 9102 (P1) (Standard size)

Packaging: 25 respirators/bag



3M™ VFlex™ Particulate Respirator 9102S (P1) (Small size)

Packaging: 25 respirators/bag

3M™ Disposable Respirators



Welding Respirators

The 3M Welding Respirator Series provide 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 are compatible with 3M eyewear and hearing products. They are 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*

3M™ Welding Respirator Series

3M™ Deluxe Welding Respirator 8514 (P2)

Packaging: 10 respirators/box, 8 boxes/case



3M™ Welding Respirator 8512 (P2)

Packaging: 10 respirators/box, 8 boxes/case



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

Galvanised Steel Nose Clip

- + Allows the 9913V to be used in coal mines

Robust Shell and Cup Design

- + Conforms well to most face shapes and sizes
- + Resistant to collapse

3M™ High Performance Filter Media

- + Effective filtration combined with low breathing resistance
- + Consistent high performance

3M™ Cool Flow Valve

(9913V & 8577)

- + 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

- + Provides protection against nuisance levels* of organic vapours and odours

Two- Point Braided Straps

- + Help provide comfortable, secure fit

'G' Class Rating (AS/NZS 1716:2003)

- + Suitable for low vapour pressure (below 1.3Pa @ 25°C) organic compounds
- + 'G' Class includes many agricultural chemicals

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



3M™ Specialty Respirators – Organic Vapour

3M™ Particulate Respirator 9913V (GP1) with Nuisance Level Organic Vapour Relief

Packaging: 10 respirators/box, 6 boxes/case



3M™ Particulate Respirator 9913 (GP1) with Nuisance Level Organic Vapour Relief

Packaging: 15 respirators/box, 6 boxes/case



3M™ Particulate Respirator 8577 (GP2) with Nuisance Level Organic Vapour Relief

Packaging: 10 respirators/box, 8 boxes/case



3M™ Particulate Respirator 9042AUS (P2) with Nuisance Level Organic Vapour Relief

Packaging: 25 individually packaged respirators/box, 10 boxes/case



3M™ Particulate Respirator 8247 (GP2) with Nuisance Level Organic Vapour Relief

Packaging: 20 respirators/box, 6 boxes/case

3M™ Disposable Respirators



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



3M™ Specialty Respirators – Acid Gas

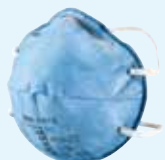
3M™ Particulate Respirator 9926 (P2) with Nuisance Level Acid Gas Relief

Packaging: 10 respirators/box, 10 boxes/case



3M™ Particulate Respirator 8246 (P2) with Nuisance Level Acid Gas Relief

Packaging: 20 respirators/box, 6 boxes/case



3M™ Particulate Respirator 9915 (P1) with Nuisance Level Acid Gas Relief

Packaging: 15 respirators/box, 6 boxes/case



3M™ Particulate Respirator 9916 (P1) with Nuisance Level Acid Gas Relief

Packaging: 10 respirators/box, 6 boxes/case

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



3M™ 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 respiratory protection 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
- + 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



3M™ Qualitative Fit Test Apparatus

FT-10 Qualitative Fit Test Apparatus Kit - Sweet (Saccharin)

FT-30 Qualitative Fit Test Apparatus Kit - Bitter (Bitrex)

Packaging FT-10 & FT-30: 1 kit/case

Accessories

FT-13 Nebuliser
Packaging: 3/case

FT-14 Test Hood
Packaging: 5/pack

FT-15 Collar
Packaging: 1/case

Sensitivity & Fit Test Solutions

FT-11 Sensitivity Solution (sweet)

FT-12 Fit Test Solution (sweet)

FT-31 Sensitivity Solution (bitter)

FT-32 Fit Test Solution (bitter)

Packaging for all solution:
55ml bottle, 6 bottles/case

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.

Our Specialist Field Representatives are trained and can provide Certificate IV style workplace training. They can also provide quality onsite training and ongoing support.

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 by ringing the free TechAssist Helpline on 1800 024 464 or by email at techassist@mmm.com

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 www.3m.com/au/ohs or ring 3M customer service on 1300 363 565.

For more information about 3M Safety products or solutions please contact your 3M representative or:

3M TechAssist Helpline (Mon-Fri 8.30am-4.30pm)	1800 024 464 or email techassist@mmm.com
3M Australia Customer Service	1300 363 565
Website	www.3m.com/au/ohs



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