

# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor™ Communications



3M E-A-R™ Peltor™ Hearing



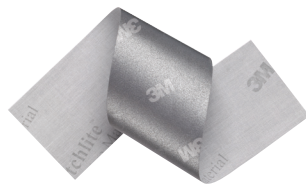
Eye Protection



Head & Face Protection



Speedglas™



Scotchlite™



Sorbents & Spill Management



Vending Solutions

# A Culture of Innovation

For more than a century, innovation has been the hallmark of 3M's growth, reflecting a culture of shared ideas and technology.

3M has problem solving expertise and customers across industries and continents that bring together divergent thinking, fresh ideas and perspectives to help you solve your challenges.

We are at the forefront of industry-wide collaboration to bring new materials and solutions from one industry to bear on another. This is one of our greatest strengths.

3M safety solutions support health and safety professionals with innovative ideas and the power to help them protect their world.



## Research & Development

3M's business model is to foster organic growth by inventing new products that previously did not exist. This model has led not only to new products, but also the creation of new industries, including several in the Personal Safety area, such as:

- + 3M tinkered with 3M™ Scotchlite™ Reflective Material for eight years before perfecting the technology in the early 1940s. Today, Scotchlite Reflective Material is a global leader in workplace visibility.
- + Over the years, the 3M nonwovens technology platform has migrated across several industries and has been applied to create hundreds of 3M products, including our comprehensive range of 3M™ Disposable Respirators.

“Every company seeks the keys to innovation, but few find them. Over the decades, 3M learned how to be innovative and today the company uses that skill to great competitive advantage.”

Jerry I. Porras, Co-author, *Built to Last*

## Personal Safety Solutions

We live in a world where people don't always make the right choice. Health and safety professionals have a challenging job convincing people to wear protective equipment for their own safety.

You must combine compliance to standards and regulations and employee safety, comfort and even style. Everyone wants to look good, but they don't always want to wear protective equipment. We know this and it is why we continue to listen, test and add innovations to improve our products making them more comfortable so people wear them longer.

3M provides solutions for work situations requiring basic personal protective equipment (PPE) through to environments that call for the most sophisticated and comprehensive protection. Our industry leading PPE has long offered safety solutions designed to meet the highest industry standards of excellence.

Whether the customer is a single tradesperson, medium sized business or an organisation employing thousands of workers, 3M has a workplace safety solution to meet your needs.

## 3M safety brands you can trust:



# Training and Support

3M sales and safety professionals work closely with customers to define your issues, identify problems and offer product options. Our experts are available for on-site consultation, training and customised options.

Our qualified and highly experienced team, including Occupational Hygienists, are able to assist customers by:

- + Conducting initial and ongoing assessments of the workplace
- + Recommending appropriate respiratory, hearing, communication, head, eye, face, body and welding protection as well as spill management solutions required to maintain a safe work environment.
- + Providing technical advice about the correct use and maintenance of the solution that has been selected.
- + Facilitating on-site respiratory and hearing protection fit testing as required.

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

## Technical Assistance

3M's free TechAssist Helpline is the ideal point of contact for your questions, especially when you require a prompt answer. Supported by trained staff, TechAssist 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/New Zealand Standards and other important information you need on a day-to-day basis.



## ANZ Distributor Network

3M distributes our wide range of workplace safety products through a distributor network which includes hundreds of stores and branches throughout Australia and New Zealand. You can locate a distributor near you by visiting the "Where to Buy" section of our website or ring Customer Service.

# 3M™ Respiratory Protection

## A heritage of comfort, fit and performance

In 1972 3M invented the disposable respirator. Since then, we have developed numerous proprietary technologies that have been incorporated into our comprehensive range of disposable, reusable and powered & supplied air respirators.

All 3M respirators meet the performance requirements of Australian/New Zealand Standard AS/NZS 1716:2012 'Respiratory protective devices'.

A major contributor to reduced respiratory protection is poor fit. Reflecting this, a fit test for wearers of respiratory protection is now required for compliance to AS/NZS 1715:2009. 3M pioneered respiratory fit testing and offers Qualitative Fit Test Kits for testing disposable and half face reusable respirators.



### Disposable Respirators

Designed to fit most facial sizes, our disposable respirators protect from certain airborne particles, mists and fumes. In addition, our specialty range reduces irritation from certain low level gases and vapours. Also available are lightweight and effective welding respirators. This wide range enables you to select the respirator to suit your environment and specific needs.

The twin strap design, robust outer shell and adjustable nose-clip add to the comfort level you require. Our disposable respirators are compatible with the 3M range of eyewear and hearing protection products.

3M's proprietary Cool Flow™ valve is another advantage exclusive to a selection of our disposable respirators. The exhalation valve efficiently minimises heat and moisture build-up, particularly in hot and humid work conditions.

### Reusable Respirators

With the ability to reuse the facepiece, the 3M range of reusable half and full face respirators offers value and versatility for a wide variety of environments and hazards, while giving you the confidence and protection you deserve.

3M™ Gas and Vapour Cartridges and Particulate Filters are lightweight, balanced and provide excellent field of vision when fitted to a respirator.

The proprietary 3M™ Bayonet Connection System on the half and full face respirators ensures precise and secure locking of filters and cartridges.

### Powered & Supplied Air Respirators

Providing clean breathable air is essential when working in areas subjected to extremely hazardous airborne contaminants.

3M has developed a comprehensive range of industry proven powered & supplied air respirators, designed and built for tough working environments. In addition to providing respiratory protection, these integrated systems offer high levels of comfort and ease of use that can enable improved productivity in the workplace.

A refreshing air supply with a combination of other protective functions allows the wearer to have respiratory protection as well as eye, head, face and hearing protection and with some systems, neck and shoulder protection as well.

## Hearing Protection

As a global leader in sound and noise detection, hearing protection and fit test validation, with our 3M™, E-A-R™ and Peltor™ brands, we deliver easy and comprehensive solutions to complex hearing protection challenges.

3M detection solutions make it easy to measure noise hazards so you can select the appropriate protection for the job. Our detection instruments deliver accurate and reliable measurements and detection management software makes it easy to report and share data.

3M offers an unmatched variety of hearing protectors, making it easy to select the right solution. A variety of earplug and earmuff sizes and materials are available, helping your team determine the correct fit for each person and the right protection for the application. Our innovative products are designed for comfortable, extended wear and they can help your team comply with your safety program.



Integrating hearing protector fit testing into a hearing conservation program benefits everyone from new hires to high-risk workers. The 3M™ E-A-Rfit™ Validation System makes it easier to fit, train and motivate workers and to access and manage the long-term performance of your hearing conservation program.

## Communication Headsets

3M's Peltor™ brand is a world leader in the communication equipment field.

Our headsets provide hearing protection while enabling wearers to communicate effectively within their immediate environment as well as with people further away.

The Peltor communications range spans from listen-only headsets that provide connection to audio devices such as some MP3, iPod™ and two-ways, to high attenuation intrinsically safe headsets for use in extreme environments using professional radios.

Other communication solutions from Peltor include tactical headsets for hunting, shooting, military and other applications for people who are subjected to impulse noise, as well as the Workstyle Solutions range that protects hearing and allows wearers to listen to the radio while working or even connect to a telephone or communication radio.

Our innovative in-ear communication systems provide a combination of lightweight hearing protection, ambient listening and the ability to communicate via two-way radios.



## Eye Protection

3M™ Protective Eyewear combines superior technologies and design to provide a range of eye protection solutions offering high performance eyewear for most work situations as well as a variety of outdoor recreational activities.

Our safety glasses and goggles deliver innovation, leading-edge design, and advanced coatings, while helping to provide you with the confidence of reliable personal protective equipment.

## Head and Face Protection

3M is a trusted leader in the head and face protection market providing comfortable and easy-to-use safety solutions to a wide spectrum of industries. They are compatible with a range of other personal protective equipment for anyone exposed to hazardous environments.

These products combine personal comfort, fashionable looks and overall value. Depending on the use, the wearer can select from several different models and colours.

3M™ Head Protection solutions include hard hats and accessories. These products are engineered exclusively to protect the wearer's head from a variety of hazards.

3M™ Face Protection solutions include faceshields, visors and headgear. These products are uniquely designed to protect the wearer's eyes and face from flying particles/debris or liquid splash

## Body Protection

Hazardous dusts and light liquid splashes are just some of the dangers present in today's industrial workplace. 3M™ Protective Coveralls help protect at-risk workers while allowing them to manoeuvre freely and do their jobs efficiently.

The coveralls offer features including breathable panels for greater comfort, fabrics with increased abrasion resistance for added longevity in harsher environments, as well as specialist treatments for added liquid repellency.



The range offers sleek unisex styling, lightweight comfort, protection and unique designs. All 3M Protective Eyewear and Goggles comply with AS/NZS 1337.1 and provide greater than 99.9% UV protection.

3M has a variety of safety goggles that offer different sizes and designs to help you meet both the needs of eyewear safety and compliance, as well as the unique styles and features that workers request.



Most models feature a three-panel hood designed for enhanced compatibility with additional PPE, plus two-way zippers for added on/off convenience. Storm flaps provide additional protection, while seamless shoulder and sleeve tops provide comfort and fewer entry points for contaminants.

## Welding Protection

3M™ Speedglas™ is the world's leading brand in advanced personal protective equipment for welders. Speedglas had the first commercially viable auto-darkening welding lens; and with its exclusive technology has been the benchmark for auto-darkening welding helmets ever since.

Speedglas' revolutionary technology continues to make it one of the safest and most reliable brands of auto-darkening welding helmets available. We also offer auto-darkening solutions with powered and supplied air respiratory protection that provide clean, breathable air for welders subjected to hazardous airborne contaminants



Characteristics that have contributed to Speedglas' award winning success include outstanding comfort, simple operation and maintenance requirements, unprecedented ergonomic design and optimum safety.

Our knowledge and experience of welders' working conditions sparks innovative development of products that enable welding performance and make the welder's job safer and more comfortable.

## Personal Visibility Solutions

3M™ Scotchlite™ Reflective Material improves visibility and safety for the wearer during daytime, at night or under low light conditions such as bad weather.

As the market leaders in reflective material, 3M has a Scotchlite Reflective product to meet your worker visibility needs. Scotchlite Reflective Materials can be used in many different occupational fields from fire fighting to mining, road construction and police work.

Its superior quality and performance provide long lasting functionality even under harsh conditions.

## Detection and Monitoring

Detection products from 3M are rugged, reliable instrumentation and software systems that detect, monitor, measure, evaluate and report occupational and environmental health and safety hazards.

3M's Quest™ Technologies brand is renowned in the sound monitoring technology arena and offers a broad range of heat stress, vibration and noise level monitors.

## Spill Management

3M™ Sorbents include general purpose, oil & petroleum and chemical sorbents to absorb liquids ranging from maintenance fluids, lubricants, oil and petroleum based liquids, to a broad range of acids, coolants and other hazardous and non-hazardous fluids.

Non-abrasive, dust free and easy to clean up, 3M sorbents come in a variety of lightweight formats that are easy to deploy in the event of a spill.



# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor<sup>TM</sup> Communications



3M E-A-R<sup>TM</sup> Peltor<sup>TM</sup> Hearing



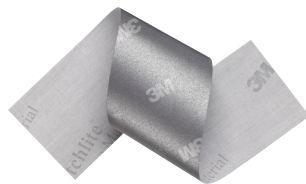
Eye Protection



Head & Face Protection



Speedglas<sup>TM</sup>



Scotchlite<sup>TM</sup>



Sorbents & Spill Management



Vending Solutions



# Respiratory Protection

3M™ Disposable Respirators



A heritage  
of protection,  
comfort and fit



# 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

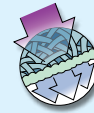
- Activated carbon layer
- Comfort with technology
- High quality performance

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.



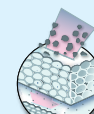
### Face Seal

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



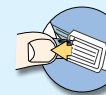
### 3M™ Foldable Three-Panel Design

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



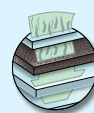
### 3M™ Clog-Resistant Welding Respirators

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





# 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

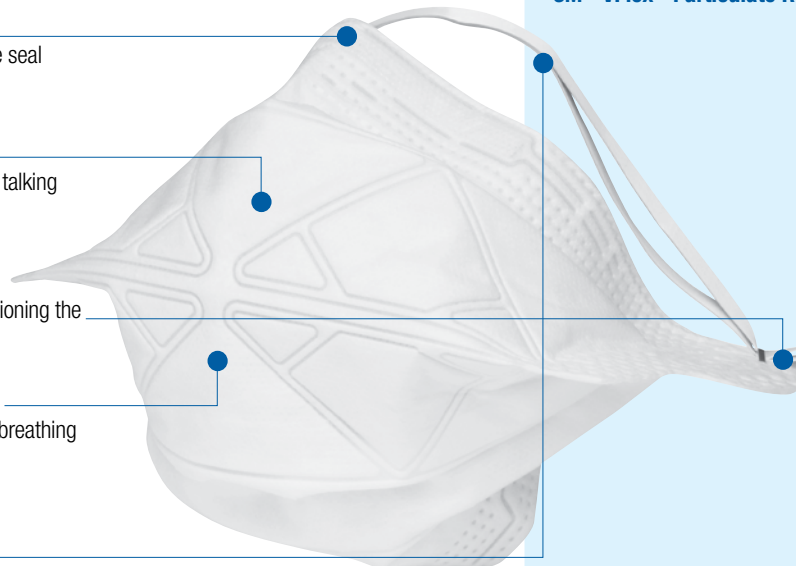
- + Contains no natural rubber latex components

#### 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



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

### 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



## 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

# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor<sup>TM</sup> Communications



3M E-A-R<sup>TM</sup> Peltor<sup>TM</sup> Hearing



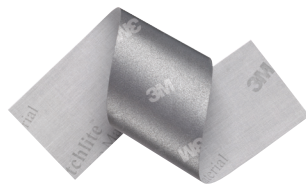
Eye Protection



Head & Face Protection



Speedglas<sup>TM</sup>



Scotchlite<sup>TM</sup>



Sorbents & Spill Management



Vending Solutions

# 3M Respiratory Protection

3M™ Reusable Respirators



Comfort, Trust,  
**Versatility**

Respirators For Your Workplace





## 4 Steps in Respiratory Protection

### 1. Identify & Assess the Hazard p6–7

Identifying and assessing hazards in the workplace is the first step in establishing respiratory protection.



### 2. Understand the Effects on the Body p8

Workers may be exposed to a variety of airborne substances which may be capable of causing harm e.g. gases, vapour, dust, mists, fume and smoke.



### 3. Product Selection p9–19

- Select Respirator
- Select Cartridge/Filter or Combination



### 4. Fit Testing, Care & Maintenance p20–23

Fit testing is considered industry best practice, as well as a requirement to comply with AS/NZS 1715:2009.

Regular care and maintenance of reusable respirators will help to achieve optimum performance and protection for the wearer.





# 3M™ Reusable Respirators



## Guide to Identify and Assess Hazards

To identify all respiratory hazards review your workplace by:  
**Task / Area / Process**

Respiratory hazards can be categorised as follows:

<p><b>Oxygen Deficiency</b></p> <p>Less than 19.5 % oxygen E.g. Confined space</p>	<p><b>Gases/Vapours</b></p> <p>E.g. Organic vapours, inorganic gas, acid gas, ammonia</p>	<p><b>Particulates</b></p> <p>Mechanically generated = P1 Thermally generated = P2</p> <p>E.g. Dust/mist, metal fume, fibre, micro organisms</p>	<p><b>Particulates</b></p> <p>Toxic = P3</p> <p>E.g. Beryllium</p>
--	---	--	--

**Risk Assessment**

Assess: Contaminants / Exposure Levels / Workplace Exposure Standard

Match Cartridge/Filter type to the hazard

<p><b>Oxygen Deficiency</b></p> <p>Seek advice from your safety supplier for airline, built-in air or SCBA options</p>	<p><b>Gases/Vapours</b></p> <p>Refer to page 16 of catalogue for 3M Cartridge options</p>	<p><b>Particulates</b></p> <p>Mechanically generated = P1 Thermally generated = P2</p> <p>Refer to page 17 of catalogue for 3M Filter options</p>	<p><b>Particulates</b></p> <p>Toxic = P3</p> <p>Refer to page 16 &amp; 17 of catalogue for 3M Cartridge/Filter options</p>
--	---	---	--



### Match the Reusable Respirator to the Cartridge/Filter

Refer to the protection factor table on page 15 to determine the best respirator for your hazard



1. Identify the Hazard

This is a guide only. Selection of the most appropriate personal protective equipment (PPE) will depend on the particular situation and exposure levels 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.



## Identify the Hazards

Industry	Application	Hazard	Recommended Protection
Construction	Painting, spraying, varnishing, coating	Solvent-based paint	A1P2
		Solvents, resins, synthetic resins	
		Latex-paint, residual solvents	
		Spray-on glue, foam, varnish, adhesive	
Metal Fabrication	Welding, metal cutting, metal pouring, soldering, brazing	Metal fumes	P2
	Welding - TIG, MIG and other	Metal fumes, ozone gas Nuisance levels of organic vapours	GP2
Agriculture	Spraying low vapour pressure*** pesticides, herbicides or fungicides	Organic vapour, mist, dust	GP2
	Mixing pesticide, herbicide or fungicide or spraying organic vapours	Organic vapour, mist, dust	A1P2
Automotive	Cleaning or using organic solvents, degreasing, paint thinners and glues	Organic vapour	A1
	Brush or roller applicaton* of 2-pack type paints	Isocyanates*	A1
Fibreglass	Laying up	Epoxy and polyester resin, amine & anhydride hardner Methy ethyl ketone peroxide (MEKP), styrene vapour	A1P2
	Using a chopper gun	Glass fibre, dust, resin and styrene vapour	
	Spray painting & cleaning moulds	Organic vapour and mist	
Maintenance	Disinfection, cleaning	Organic vapour, mist, dust	A1P2
		Organic vapour, formaldehyde, mist, dust	ABE1P2
Other	Handling:	Ammonia (NH3)**	K
		Bacteria, spores, odours	GP2
		Hydrochloric acid vapour or mist**	ABEP2
		Petroleum solvents	A2
		Sulphur dioxide **	ABE
		Sulphuric acid (H2SO4)**	P2
		Hazardous goods storage/transport	ABEKP3

\* For protection from Isocyanates when spraying polyurethanes/2 pack, please contact the 3M TechAssist Helpline

\*\* Also need to consider eye/face/skin protection

\*\*\* Low vapour pressure < 1.3Pa @ 25°C

P3 protection is only achieved on a full face respirator.

Application limits for Gas & Vapour respirators (AS/NZS1715):

- Half face respirators can be used up to 10 times the relevant Workplace Exposure Standards (WES) or up to 1000 ppm, whichever limit is reached first.
- Full face respirators can be used up to 100 times the WES with a Class 2 filter or up to 5000 ppm, whichever limit is reached first.
- A1 and A2 Cartridges are designed for use with organic vapours with a boiling point above 65°C.
- AX Cartridges are used for organic vapours with a boiling point under 65°C. Note: 3M™ AX Cartridges are single use and can only be fitted to 3M™ Full Face respirators.

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 exposure levels 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™ Reusable Respirators



## Understanding Respiratory Hazards on your Body

Your lungs are vital to your health – if hazardous particles reach the lungs they can damage the delicate tissue and cause illness. Your body has some natural defences against airborne particulate hazards but if the contaminant is in a large enough quantity and/or made up

of very small particles, these defences may be overcome, resulting in ill health and increased risk of diseases such as occupational asthma, pulmonary fibrosis and cancer.

**Our lungs**  
Air enters the body through the nose and throat and travels down the trachea (windpipe) to the lungs. The airways of the lungs divide into many small branches which end in air sacs called alveoli. It is in the alveoli that the oxygen in the inhaled air is transferred to the blood so that it can be transported to cells all over the body.

**Airborne Hazards**  
Your instinct to protect yourself will be quicker with a hazard you can see, but remember that some types of harmful particles are invisible to the human eye.

2. Understand the Effects on the Body

<b>Dusts</b>	Solid particles suspended in the air as a result of the disintegration of matter. Dust may be generated by mechanical means e.g. drilling, sawing and sandblasting.
<b>Sprays and Mists</b>	Airborne droplets – the droplets may carry substances in solution or particles in suspension. Mists are usually formed by condensation of a vapour or by atomisation of a liquid.
<b>Smoke</b>	Particles of low vapour pressure suspended in the air. Smoke is made up from the solid and liquid products of combustion. Smoke particles settle slowly under gravity.
<b>Fume</b>	Particles forming an airborne suspension. Fuming is usually caused by the heating of a solid to such an extent that it vapourises and condenses into small particles in the surrounding air. May be termed a thermally generated particulate.
<b>Gas</b>	A substance which is like air – it is neither a solid or liquid at room temperature.
<b>Vapour</b>	The gaseous form of a substance which is solid or liquid at room temperature.



## Select the Right Respirator and Cartridge/Filter

	<p><b>Particulate Protection</b></p>
	<p><b>Particulate Protection + Nuisance Level* Organic Vapour and Acid Gas</b></p>
	<p><b>Gas &amp; Vapour Protection only</b></p>
	<p><b>Combined Particulate + Gas &amp; Vapour Protection</b></p>
	<p><b>Combined Particulate + Gas &amp; Vapour Protection</b></p> <p><b>Ready to use, Maintenance free</b></p>

\* Nuisance Levels are those levels below the Workplace Exposure Standard (WES)

\*\* P3 protection achieved only when worn with a 3M Full Face Respirator

^ Available in Australia only

# 3M™ Reusable Respirators



## 3M™ Half Face Respirator 6000 Series

3M Half Face Reusable Respirators 6000 Series are low-maintenance, lightweight and simple to handle.

Available in three sizes, all respirators have the 3M™ Bayonet Connection System which fit 3M's broad range of twin, lightweight, cartridges and filters. These provide protection against gases, vapours

and particulates (depending on your needs). The twin filter design has a low profile and is well balanced. The 6000 Series Half Face Respirators can also be used with 3M™ Supplied-Air Systems.

Meets the performance requirements of AS/NZS 1716:2012.

### Features and Benefits:

#### Simple and Lightweight

- + Easy to use
- + Contoured face seal design
- + Thermoplastic Elastomer (TPE) facepiece

#### Convenience

- + Drop down head harness option available for added convenience during breaks

#### Flexibility

- + Optional supplied air connection (SA-2000 or SA-2100)

#### Spare parts

A range of spare parts or components are available. Below are the most common spare parts.



### 3M™ Half Face Respirator 6000 Series





- 3M 6100 – small (light grey)
- 3M 6200 – medium (grey)
- 3M 6300 – large (dark grey)

### 3M™ Drop Down Half Face Respirator 6000 Series

- 6200DD - medium
- 6300DD - large



Ideal for workers who wear a hardhat or welding shield and need to frequently remove the respirator without removing the hardhat or welding shield.

	Product Code	Description
	6889	Exhalation Valve - Blue
	6893	Inhalation Valve - White
	6895	Inhalation Gasket - Orange
	6281	Head Harness Assembly



# 3M™ Half Face Respirator 7500 Series

3M's Half Face Reusable Respirators 7500 Series have set a high standard in comfort. The 3M™ Cool Flow™ Exhalation valve reduces breathing resistance, helping to minimise heat build-up in the respirator, increasing your comfort.

Available in three sizes, all respirators have the 3M™ Bayonet Connection System which fits 3M's range of twin, lightweight,

cartridges and filters. These provide protection against gases, vapours and particulates (depending on your needs). The twin filter design has a low profile and is well balanced. These half face respirators can also be used with 3M™ Supplied-Air Systems.

Meets the performance requirements of AS/NZS 1716:2012.

## Features and Benefits:

### Comfort

- + Soft silicon face seal for extra comfort and durability
- + Proprietary 3M™ Cool Flow™ Exhalation valve provides low breathing resistance and minimises heat build-up in the respirator
- + Ideal for working in hot and humid conditions or during prolonged use
- + Thin nose bridge area for reduced pressure and improved comfort



### Convenience





- + Drop down harness feature for added convenience during breaks
- + Fits well with 3M Head and Eye Protection
- + Respirator design helps reduce fogging when wearing eye protection
- + Unique valve design reduces dust and dirt build-up improving hygiene and reliability

### Flexibility

- + Optional supplied air connection (SA-2000 or SA-2100)

### Spare parts

A range of spare parts or components are available. Below are the most common spare parts.

	Product Code	Description
	7582	Inhalation Valve - Blue
	7583	Exhalation Valve - Blue
	7580	Replacement Harness Straps
	7581	Head Harness Assembly

## 3M™ Half Face Respirator 7500 Series

- 3M 7501 – small (light blue)
- 3M 7502 – medium (blue)
- 3M 7503 – large (dark blue)



## 3M™ Respirator Cleaning Wipe 504



The 504 Cleaning Wipes are alcohol-free pre-moistened towelettes for cleaning all reusable respirators without damaging them.

# 3M™ Reusable Respirators



## 3M™ Full Face Respirator 6000 Series

The 3M Full Face Respirator 6000 Series is simple to use and comfortable to wear. It offers a wide field of vision and is well balanced.

Available in three sizes, all respirators have the 3M™ Bayonet Connection System which fit 3M's broad range of twin, lightweight, cartridges and filters. These provide protection against gases, vapours

and particulates (depending on your needs). The twin filter design has a low profile and is well balanced. These full face respirators can also be used with 3M™ Supplied-Air Systems.

Meets the performance requirements of AS/NZS 1716:2012.

### Features and Benefits:

#### Comfort

- + Soft, non-allergenic silicon face seal
- + Lightweight and well balanced
- + Simple and easy to use
- + Proprietary 3M™ Cool Flow™ Exhalation valve provides low breathing resistance and minimises heat build-up in the respirator

#### Convenience and Performance

- + Four strap head suspension - easy to put on and take off
- + Wide field of vision
- + Polycarbonate lens has molten metal and high impact resistance to AS/NZS 1337

#### Flexibility

- + Optional supplied air connection (SA-2000 or SA-2100)


#### Spare parts





A range of spare parts or components are available. Below are the most common spare parts.

### 3M™ Full Face Respirator 6000 Series

- 3M 6700 – small (light grey)
- 3M 6800 – medium (grey)
- 3M 6900 – large (dark grey)



Product Code	Description
 <b>6893</b>	Inhalation Valve - White
 <b>6895</b>	Inhalation Gasket - Orange
 <b>6896</b>	Centre Adaptor Gasket
 <b>7583</b>	Exhalation Valve - Blue

Product Code	Description
 <b>6885</b>	Lens Cover - Clear
 <b>6897</b>	Head Harness Assembly
 <b>6898</b>	Lens Assembly
 <b>6878</b>	Spectacle Kit



## 3M™ Half Face Respirator 4000 Series

The 4000 Series Respirators are a unique range of ready-to-use, maintenance-free half face respirators. The built-in filters are integral to the mould providing comfortable protection against a combination of many gases, vapours and particulate hazards. Utilising the unique filter technology enables a low-profile, well balanced design for an undisturbed field of view.

Meets the performance requirements of AS/NZS 1716:2012.

### Features and Benefits:

#### Comfort

- + Lightweight, well balanced design
- + Soft, non-allergenic face seal
- + Textured face seal to minimise slippage and improve comfort

#### Built-in filters

- + No cartridge or filter replacement required
- + Four versions available, each offering protection against different hazards
- + One piece, maintenance-free design
- + Unique wrap around design provides an undisturbed field of view

#### Convenience

- + Use until damaged, particulate filters clog or gas filters become saturated
- + Re-sealable bag provides convenient and clean storage between uses
- + Ideal for contractors, plant shutdowns and spill response (eliminates need for separate respirator, cartridge/filter or carrying out respirator maintenance)



3M™ Half Face Respirator 4000 Series



**3M™ 4251 (A1P2)**  
Organic vapour +  
Particulate respirator



**3M™ 4255 (A2P2)**  
Organic vapour + Particulate  
respirator



**3M™ 4277 (A1B1E1P2)**  
Organic vapour / Inorganic + Acid  
gas / Particulate respirator



**3M™ 4279 (A1B1E1K1P2)**  
Organic vapour / Inorganic +  
Acid gas / Ammonia / Particulate  
respirator



# 3M™ Reusable Respirators Cartridges & Filters



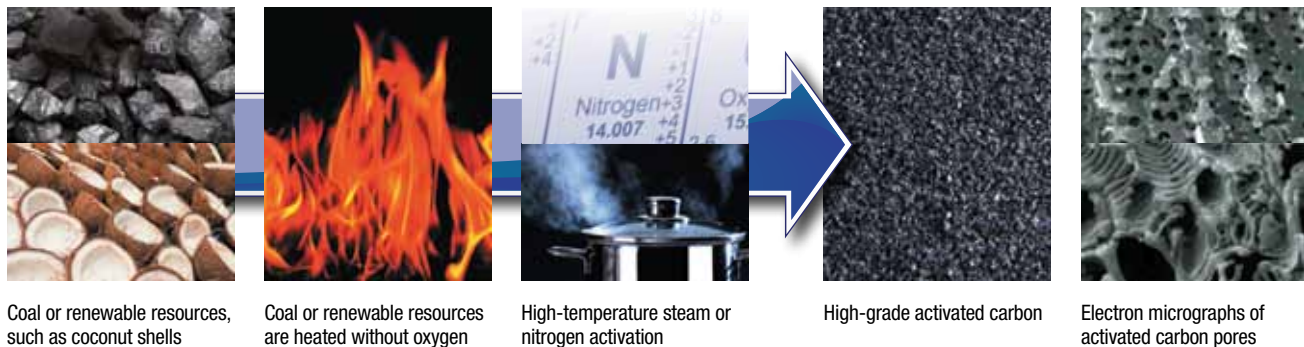
## Organic Vapours

3M makes organic vapour respirator cartridges to help reduce user exposure to many different organic vapours. Organic vapours are compounds primarily derived from fossil fuels such as oil or coal. For example, solvents or petrol release organic vapours.

### How organic cartridges are made

Respirator cartridges are filled with a material called activated carbon. Activated carbon is typically made from coal or renewable resources like wood or coconut shells. It is “activated” by heating the material in nitrogen or steam at approximate temperatures of 800 – 900°C.

The resulting material has a significant number of micropores that help adsorb various organic vapours. These micropores can be measured and optimised for specific product needs and performance.

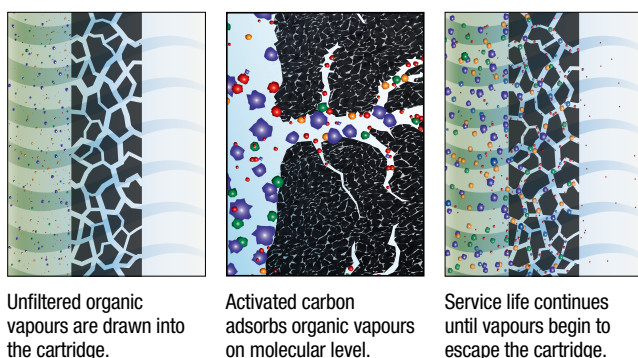


### How organic cartridges work

When organic vapours are drawn through an organic vapour cartridge, the air is filtered as vapours condense into the carbon pores. Vapours move through the cartridge from one pore to the next. This occurs more quickly for small volatile vapours with lower boiling points (e.g. acetone). Some migration of organic vapours can even occur during storage, so care must be taken before reusing the cartridge. The effective service life is the time until vapours begin to exit the cartridge.

Unlike particle filters, service life is not indicated by change in breathing resistance. Instead, cartridges must be changed according to local regulations; taste, smell, or irritation from the contaminant; or according to 3M™ Service Life Software calculation, whichever comes first.

Activated carbon by itself cannot adsorb other types of gases or vapours such as acid gases, ammonia, formaldehyde, etc. In some cases, additional metals and salts are added to the carbon to enable it to selectively remove these compounds. For this reason, 3M offers a variety of cartridges and reusable respirators to help protect workers in different environments and satisfy personal preferences.











# Cartridge & Filter Classification System

## 3M™ Gas & Vapour Cartridges

AS/NZS 1716 uses a classification system to identify the different types of contaminants these treated carbon will capture (as mentioned on the previous page). 3M Cartridges follow this marking and colour coding system.

A	Organic Vapours (boiling point > 65°C)	
AX	Organic Vapours (boiling point < 65°C)	
B	Inorganic Gases	
E	Acid Gases	
K	Ammonia	
Hg	Mercury	
G	Organic Compounds with low vapour pressure	

## 3M™ Particulate Filters

These filters are enhanced with electrostatically charged fibres to trap particulates within the filter media. As particulate filters load up with the contaminant, they typically become more efficient; however, they also become harder to breathe through.

AS/NZS 1716 uses a classification system to identify the different types of particulate protection required.

P1	Particles generated by mechanical processes e.g. grinding, sanding
P2	Particles generated by mechanical and thermal processes e.g. welding
P3	All Particles including highly toxic materials

## Protection Factors

Depending on the combination of cartridge/filter and respirator, different levels of protection may be achieved.

Protection factor is the reduction in exposure expected with correct use of a respirator. E.g. A protection factor of 10 means the wearer can expect a 10 times reduction in exposure to the airborne concentration of contaminants.

The higher the protection factor, the greater the reduction in exposure to airborne contaminants for the wearer.

### Gas/Vapour Protection

Respirator	Filter	Protection Factor
Half Face Respirator	Class 1	Up to 10
Half Face Respirator	Class 2	Up to 10
Full Face Respirator	Class 1	Up to 50
Full Face Respirator	Class 2	Up to 100
No 3M offering	Class 3	-

### Particulate Protection

Respirator	Filter	Protection Factor
Half Face Respirator	P2 Filter	Up to 10
Half Face Respirator	P3 Filter	Up to 10
Full Face Respirator	P2 Filter	Up to 50
Full Face Respirator	P3 Filter	Up to 100

# 3M™ Reusable Respirators Cartridges & Filters



## 3M™ Gas & Vapour Cartridges









The 3M Cartridges 6000 Series attach to the 3M™ Half and Full face Respirators to provide gas and vapour protection. These cartridges are lightweight and well balanced when fitted to the respirator.

Meets the performance requirements of AS/NZS 1716:2012.



The 3M™ Bayonet Connection System ensures precise and secure locking.

3. Product Selection

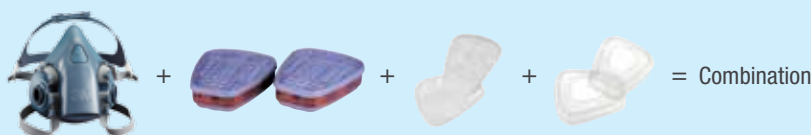
Product Code	Description	Filter/Class Rating	When You Are: (Application/Hazard)
6051 6055	 Organic Vapours (boiling point > 65°C)	A1 (6051) A2 (6055)	Using or cleaning with organic solvents e.g. toluene, xylene and MEK. Also degreasing, mixing, using paint thinners, lacquers and glues. For paint and pesticide spraying* a particulate filter must be used to capture mist droplets (5925).
6057	 Organic Vapours (boiling point > 65°C), Inorganic and Acid Gases	A1B1E1	Working with solvents and/or acid gases such as toluene, chlorine, hydrogen chloride and sulfur dioxide. Degreasing, using paint thinners, acid cleaning, etching and electroplating, acid and fertiliser manufacturing.
6054	 Ammonia and Methylamine	K1	Working with ammonia and methylamine used in the manufacture of fertilisers, refrigeration systems, synthetic fibres and dyes.
6075	 Organic Vapours (boiling point > 65°C) and Formaldehyde	A1 Form	Working with solvents and formaldehyde such as chemical processing, plastic production, fibreboard manufacturing, fighting bush fires, healthcare and laboratory work.
6059	 Multi-Gas: Organic Vapours (boiling point > 65°C), Inorganic and Acid Gases, Ammonia and Methylamine	A1B1E1K1	Working with a variety of chemicals such as solvents (boiling point > 65°C), chlorine, hydrogen chloride, sulfur dioxide, hydrogen fluoride, hydrogen sulfide and ammonia.
6096	 Organic Vapours (boiling point > 65°C), Mercury Vapours and Toxic Particulates	A1HgP3**	Oil and gas refining, healthcare when removing amalgam or wherever mercury vapours may exist e.g. spillages.
6098	 Low Boiling Point Organic Vapours (boiling point <65°C) and Toxic Particulates	AXP3**	Working with highly volatile solvents such as methanol, 1,3-Butadiene or Acetaldehyde in chemical plants, composites manufacturing or coatings. Filter is single use only and must be worn with a 3M Full Face Respirator.
6099	 Multi-Gas and Particulates: Organic Vapours (boiling point > 65°C), Inorganic and Acid Gases, Ammonia, Methylamine and Particulates	A2B2E2K2P3** Multi-Gas Class 2	Exposed to higher concentrations where Class 2 protection is required. Working with a variety of chemicals (refer to 6059) as well as particulates. Must be worn with a 3M Full Face Respirator.

\* Not to be used when spraying isocyanate based paints

\*\* P3 Filters used when a higher protection factor is required. P3 Protection achieved only when worn with a 3M Full Face Respirator

For protection against a combination of gases, vapours and particulates, a combination is required.

Use the 3M™ 501 retainer to attach the particulate filter to the cartridge as shown:





# 3M™ Particulate Filters

The 3M™ 2000, 5000 and 6000 Series Particulate Filters attach to the 3M™ Half and Full Face Respirators to provide particulate protection. These filters are lightweight and provide low breathing resistance. They are made from 3M high performance filter media for effective filtration efficiency.

Meets the performance requirements of AS/NZS 1716:2012.



The 3M™ Bayonet Connection System ensures precise and secure locking.

Product Code	Description	Filter/Class Rating	When You Are: (Application/Hazard)
<b>2125</b>	Particulates	P2	Creating certain dusts, mists and fumes such as sanding, grinding, cutting, drilling metal, masonry, wood and concrete.
<b>2128</b>	Particulates, Ozone and Nuisance Level* Acid Gas and Organic Vapours with Low Vapour Gases	GP2	Creating welding fume, ozone, polishing and grinding particles when welding or fabricating. Also for spraying pesticides or herbicides with vapour pressure < 1.3 Pa @ 25°C.
<b>2135</b>	Toxic Particulates	P2/P3**	Working with toxic particulates such as asbestos (refer to Government guidelines***) and beryllium.
<b>2138</b>	Toxic Particulates, Nuisance Level* Acid Gases and Organic Vapours with Low Vapour Pressure	GP2/GP3**	Working with toxic particulates such as mould remediation. Also for nuisance level* acid gases and spraying pesticides or herbicides with vapour pressure < 1.3 Pa @ 25°C.
<b>2076</b>	Particulates and Hydrogen Fluoride	P2(HF)	Working with hydrogen fluoride and creating particulates such as dust and mist. Applications include working in certain chemical and fertiliser plants.
<b>6035</b>	Toxic Particulates	P2/P3**	Carrying out lead or mould remediation. Also for certain asbestos tasks (refer to Government guidelines***). Ideal if requiring a protective casing to deflect sparks and splashes.
<b>6038</b>	Toxic Particulates and Hydrogen Fluoride, Nuisance Level* Organic Vapour and Acid Gas	P3(HF)**	Working with hydrogen fluoride and creating toxic particulates. Applications include working in certain chemical and fertiliser plants. Ideal if requiring a protective casing to deflect sparks and splashes.
<b>5925</b> <b>5935</b>	Particulates	P2 P3**^	Needing protection against dusts, mists (including oil based particles) and fumes when fitted to 6000 series cartridge with the 501 retainer.
<b>501</b>	Particulate Filter Retainer	-	Attaching 5925 or 5935 filter to 6000 series cartridges.

\* Nuisance Levels are those levels below the Workplace Exposure Standard (WES)

\*\* P3 Filters used when a higher protection factor is required. P3 Protection achieved only when worn with a 3M Full Face Respirator

\*\*\* Refer to Australia State OHS guidelines or New Zealand Ministry of Business, Innovation & Employment Guidelines (previously known as Department of Labour)

^ Available in Australia only

# 3M™ Reusable Respirators Starter Kits



## 3M™ Reusable Respirator Starter Kits

These kits are designed to offer respiratory protection in a convenient and easy way – an ideal solution to get you started. The kits provide protection for a range of applications, from paint spraying to sanding or welding.

All kits include a pair of 3M™ Earplugs, 3M™ Respirator Cleaning Wipes and a 3M Respiratory Protection Guide. To avoid moisture and contaminant exposure, store the respirator in the handy, sealable storage container.



### 3M™ Welding Respirator Kit 7528, GP2

Includes a 3M™ Half Face 7500 Series Respirator with special Cool Flow™ valve and soft silicon material. Ideal for working in hot and humid conditions or during prolonged use.

#### Applications/Hazards:

- + Welding - Fume/ozone
- + Soldering/Brazing - Fume
- + Grinding/Polishing - Metal dust and particles
- + Drilling - Metal particles
- + Metal Pouring - Fume
- + Machining - Oil mist

#### Kit Includes:

- + 1 x 3M™ Half Face Respirator 7500 Series - Medium
- + 1 x pair of 3M™ Particle & Metal Fume Filters 2128, GP2
- + 4 x 3M™ Respirator Cleaning Wipes 504
- + 1 x 3M™ Skull Screws™ Earplugs P1300, Class 5
- + 1 x 3M™ Respiratory Protection Guide
- + 1 x Handy Storage Container



### 3M™ Welding Respirator Kit 6228, GP2

Includes a 3M™ Half Face 6000 Series Respirator that is simple and lightweight.

#### Applications/Hazards:

- + Welding - Fume/ozone
- + Soldering/Brazing - Fume
- + Grinding/Polishing - Metal dust and particles
- + Drilling - Metal particles
- + Metal Pouring - Fume
- + Machining - Oil mist

Note: Currently available in Australia only

#### Kit Includes:

- + 1 x 3M™ Half Face Respirator 6000 Series - Medium
- + 1 x pair of 3M™ Particle & Metal Fume Filters 2128, GP2
- + 4 x 3M™ Respirator Cleaning Wipes 504
- + 1 x 3M™ Skull Screws™ Earplugs P1300, Class 5
- + 1 x 3M™ Respiratory Protection Guide
- + 1 x Handy Storage Container



### 3M™ Spraying Respirator Kit 7551, A1P2

Includes a 3M™ Half Face 7500 Series Respirator with special Cool Flow™ valve and soft silicon material. Ideal for working in hot and humid conditions or during prolonged use.

#### Applications/Hazards:

- + Paint Spray - Solvent vapours/mist
- + Pesticide Spray - Organic vapours/mist
- + Chemical Handling - Organic vapours from thinners, adhesives
- + Fibreglassing - Solvent vapours
- + Printing - Solvent vapours
- + Degreasing - Solvent vapours

#### Kit Includes:

- + 1 x 3M™ Half Face Respirator 7500 Series – Medium
- + 1 x pair of 3M™ Organic Vapour Cartridges 6051, A1
- + 1 x box (5 pairs) of 3M™ Particulate Filters 5925, P2
- + 1 x pair of 3M™ Filter Retainers 501
- + 4 x 3M™ Respirator Cleaning Wipes 504
- + 1 x 3M™ No-Touch™ Foam Earplugs P2000, Class 4
- + 1 x 3M™ Respiratory Protection Guide
- + 1 x Handy Storage Container



### 3M™ Spraying Respirator Kit 6251, A1P2

Includes a 3M™ Half Face 6000 Series Respirator that is simple and lightweight.

#### Applications/Hazards:

- + Paint Spray - Solvent vapours/mist
- + Pesticide Spray - Organic vapours/mist
- + Chemical Handling - Organic vapours from thinners, adhesives
- + Fibreglassing - Solvent vapours
- + Printing - Solvent vapours
- + Degreasing - Solvent vapours

#### Kit Includes:

- + 1 x 3M™ Half Face Respirator 6000 Series – Medium
- + 1 x pair of 3M™ Organic Vapour Cartridges 6051, A1
- + 1 x pair of 3M™ Particulate Filters 5925, P2
- + 1 x pair of 3M™ Filter Retainers 501
- + 4 x 3M™ Respirator Cleaning Wipes 504
- + 1 x 3M™ No-Touch™ Foam Earplugs P2000, Class 4
- + 1 x 3M™ Respiratory Protection Guide
- + 1 x Handy Storage Container



### 3M™ Multi-Gas Respirator Kit 6259, A1B1E1K1P2

Includes a 3M™ Half Face 6000 Series Respirator that is simple and lightweight.

#### Applications/Hazards:

Range of vapours and gases including (but not limited to):

- + Chlorine
- + Sulphur Dioxide
- + Solvents (boiling points >65°C)
- + Hydrogen Sulphide
- + Ammonia
- + Hydrogen Chloride

#### Kit Includes:

- + 1 x 3M™ Half Face Respirator 6000 Series – Medium
- + 1 x pair of 3M™ Multi-Gas Cartridges 6059, A1B1E1K1
- + 1 x pair of 3M™ Particulate Filters 5925, P2
- + 1 x pair of 3M™ Filter Retainers 501
- + 4 x 3M™ Respirator Cleaning Wipes 504
- + 1 x 3M™ No-Touch™ Foam Earplugs P2000, Class 4
- + 1 x 3M™ Respiratory Protection Guide
- + 1 x Handy Storage Container



### 3M™ Dust/Particle Respirator Kit 6225, P2

Includes a 3M™ Half Face 6000 Series Respirator that is simple and lightweight.

#### Applications/Hazards:

- + Sanding/Sawing - Wood/plaster dust
- + Lead Paint Removal - Metal fume and/or particles
- + Food Manufacturing - Fine food powders
- + Insulation - Fibreglass particles
- + Drilling/Cutting - Metal/wood/plastic particles
- + Masonry - Stone particles
- + Grinding - Metal dust and particles
- + Powder Coating - Dust

#### Kit Includes:

- + 1 x 3M™ Half Face Respirator 6000 Series - Medium
- + 1 x pair of 3M™ Particulate Filters 2125, P2
- + 4 x 3M™ Respirator Cleaning Wipes 504
- + 1 x 3M™ No-Touch™ Foam Earplugs P2000, Class 4
- + 1 x 3M™ Respiratory Protection Guide
- + 1 x Handy storage container

# 3M™ Reusable Respirators Fit Testing



## Why is Fit Testing so important?

The biggest contributor to reduced respiratory protection is poor fit. Checking 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 tight fitting facepieces is required for compliance to AS/NZS 1715:2009.

Respirators with tight fitting facepieces include disposable respirators, half and full-face respirators, including those that form part of a powered or air-fed respirator.

## When to Fit Test

### Fit testing should be carried out:

- + Before the respirator is issued
- + On all wearers of respirators with tight fitting facepieces where fit testing has previously not been performed

### Fit testing should be repeated at appropriate times such as:

- + If the wearer significantly loses or gains weight, has major dental work or sustains a major facial injury
- + If a different size or model of Respiratory Protective Equipment (RPE) is specified
- + At least annually or when specified by the company policy e.g. during a health surveillance check
- + Fit testing is in addition to performing a self fit check prior to each use as a determination of suitable fit

Prior to entering the contaminated area, at each use, the wearer should carry out a self-fit check to test the respirator fit.

### There are two main methods of fit testing available:

- + Qualitative fit testing
- + Quantitative fit testing

Contact 3M for qualitative and quantitative fit testing advice.

During both methods of testing, it is essential that the person is free from facial hair and other items that may interfere with the face seal. Wearers with facial hair or stubble (even a day's growth) must not wear a respirator which has a tight fitting facepiece.

All tests require a series of exercises to be performed during the fit test. Manufacturers' instructions for the test equipment should be followed at all times.

A record of the result of the test should be generated and retained for at least 5 years. Some schools of thought consider these records to be identifiable to an individual and related to health controls; in which case records may need to be kept for 40 years. Check with your local regulatory authorities to determine their requirements.

For more information on the requirements of Fit Testing, refer to the AS/NZS 1715:2009

Refer to the following page for 3M Qualitative Fit Test products.



## 3M™ Qualitative Fit Test Kits

Conduct a fit test to ensure that a respirator with a tight fitting facepiece provides an adequate seal to the wearer's face.

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
- + Training resources available, please contact your local 3M representative for more information
- + 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)

### 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

### Accessories

FT-13 Nebuliser

FT-14 Test Hood

FT-15 Collar



# 3M™ Reusable Respirators Monitoring



## The Importance of Monitoring

Knowing the specific contaminant and exposure levels is important to determine the appropriate respirator, and cartridge or filter for your work environment. This information will also help in estimating the life of selected 3M™ Gas and Vapour Cartridges.

If exposure levels are not known, advice and monitoring is required. While 3M does not carry out exposure assessments or monitoring, we do offer 3M™ Gas Diffusion Monitors (below) which can be a useful starting point.

## 3M™ Gas Diffusion Monitors

3M™ Gas Diffusion Monitors are simple and effective devices that collect certain airborne contaminants using the principle of diffusion.

They assist in the assessment of exposure to workplace contaminants, both personal and background. These monitors are easy to use and simply clip onto the shirt, collar or pocket.

Contact the 3M TechAssist Helpline for further information on chemicals which can be captured and approved laboratories for monitor analysis.

### 3M™ Organic Vapour Monitor

Uses a single wafer carbon sorbent for collecting organic vapours. The 3500 can be used for most applications, particularly suited to routine sampling of exposures to common solvents such as Toluene, Xylenes, Styrene, Naptha and White Spirits.

### 3M™ Organic Vapour Monitor with Backup Section

Uses a dual layer carbon sorbent for collecting organic vapours. Especially suited for monitoring compounds such as vinyl chloride, acrylonitrile, methylene chloride and butadiene for which activated carbon shows limited capacity. The 3520 has 2 layers for increased sampling capacity. Increased capacity may be necessary when sampling volatile compounds (compounds with low boiling points), high or unknown concentrations, complex mixtures or when sampling in high humidity.

### 3M™ Formaldehyde Monitor

Designed for measuring exposures to Formaldehyde such as those in the chemical, pulp and paper, foundry and textiles industries. The 3721 uses an impregnated filter to convert formaldehyde to a stable bisulfite addition product.

### 3M™ Ethylene Oxide Monitor

Designed for measuring exposures to Ethylene Oxide such as those in the pharmaceutical, health care and chemical industries. The 3351 utilises brominated carbon to collect and convert reactive ethylene oxide to a more stable derivative called 2-bromoethanol. They can be used for 15 minute STEL sampling.



Product Code: 3500



Product Code: 3520



Product Code: 3721



Product Code: 3351

# 3M™ Reusable Respirators Care & Maintenance



## Why is Care & Maintenance so Important?

To optimise the effective lifetime of your reusable respirators and avoid the additional cost of replacement, regular maintenance is important.

3M™ Reusable Respirators require regular checks and maintenance to ensure optimum performance and protection for the wearer. In addition to potentially reducing protection levels, poor maintenance can also

reduce the effective lifetime of equipment, resulting in the additional cost of replacement. Guidance on the appropriate checks is provided in user instructions with each new product.

### When should 3M™ Gas & Vapour Cartridges be replaced?

The service life (i.e. how long it will last) of any gas and vapour cartridges depends on a number of factors including: the type, volatility and concentration of contaminants in the air, breathing rate, humidity, temperature, exposure time and how the respirator is stored.

#### Replace both 3M Gas & Vapour Cartridges:

- + When the expiry date stamped on the sealed packet has elapsed.
- + Once opened, maximum use time is 6 months, even if not used (as per AS/NZS 1715:2009). The carbon will absorb contaminants from the general environment.
- + When the contaminant can be detected by smell or taste (as per AS/NZS 1715:2009).
- + In accordance with your established Cartridge Change Schedule (as per AS/NZS 1715:2009).
- + As per manufacturer guidelines (6098 AXP3 Cartridge)

### 3M™ Select and Service Life Software

3M have designed software to help you estimate how frequently certain 3M™ Gas and Vapour Cartridges should be replaced. You can then use this information to establish a cartridge change schedule. You will firstly need information on the chemical contaminants and exposure level in your working environment.

For more information contact your 3M representative, the TechAssist Helpline or visit our website. See back cover for contact details.

You can also ask for a copy of the 3M Select and Service Life Software Information Sheet.



### When should 3M™ Particulate Filters be replaced?

The service life of a particulate filter is different to a gas and vapour cartridge.

#### Replace both 3M Particulate Filters:

- + When the expiry date stamped on the sealed packet has elapsed.
- + When breathing resistance becomes difficult (this will vary by wearer) As more particulates are collected in the filter, they take up space that air would usually flow through, therefore increasing breathing resistance.
- + When the filter becomes unacceptably dirty or physical damage occurs.

### Cleaning Reusable Respirators

Proper cleaning and maintenance of respirators is an important area that is commonly overlooked. All respiratory protection equipment needs to be in good condition to work effectively and safely. A quick guide to cleaning 3M™ Reusable Respirators can be found in the Reusable Protection Guide below.

### Reusable Respiratory Protection Guide

This small booklet has been designed to provide customers with a guide on cartridge and filter selection, how to clean a reusable respirator, when to change common spare parts, and frequently asked questions.



# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor<sup>TM</sup> Communications



3M E-A-R<sup>TM</sup> Peltor<sup>TM</sup> Hearing



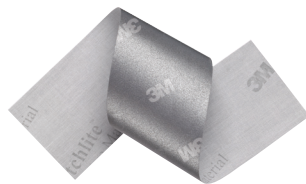
Eye Protection



Head & Face Protection



Speedglas<sup>TM</sup>



Scotchlite<sup>TM</sup>



Sorbents & Spill Management



Vending Solutions

# Respiratory Protection

3M™ Powered and Supplied Air Respirators



Breathing  
under toughest  
conditions





# Powered and Supplied Air Respirators by 3M

Providing clean breathing air is essential when working in areas subjected to extremely hazardous contaminants.

3M has developed a comprehensive range of industry proven powered and supplied air respirators, designed and built for tough working environments. In addition to providing respiratory protection, these systems offer high levels of comfort and ease of use that can enable improved productivity in the workplace. A refreshing air supply with a combination of other protective functions allows the wearer to have respiratory protection, as well as eye, face, head and in some cases shoulder protection.

3M offers two ways for customers to purchase Powered & Supplied Air (P&SA) respirators. The option to select either a Modular or Individual System allows the user to tailor a solution to suit the particular needs of their workplace.



# Four Steps to the Right Respirator

## Modular Powered and Supplied Air Respirators

- 1** Identify the Hazards – dust, metal fume, gas, vapour etc.
- 2** Assess the Risk – assess the hazard levels against safety standards and consider other protection – skin, eye and ear.
- 3** Select the right Respirator – Powered or Supplied Air

### 3.1

#### Choose your headgear



Choose among a wide selection of headtops to meet the requirements of your workplace, from lightweight hoods to industrial helmets, that provide not only respiratory protection, but also eye and face protection, head protection, and optionally, hearing protection.

### 3.2

#### Choose your air source



To handle the contaminant situation at your particular workplace, you have the choice between two filtering powered air turbo systems, three supplied air regulators and multiple filter options.

### 3.3

#### Choose your breathing tube



You need a breathing tube connecting the air source with the headtop to ensure that clean air reaches the headtop reliably and with unrestricted airflow. The breathing tubes offered are compatible with all headtops and air sources.

### 3.4

#### Choose accessories



3M offers a comprehensive range of accessories to make it easy to install your individual supplied air system.

- 4** Train in fitting and use to optimise respiratory protection

## Individual Systems

The respirator systems featured below can be used in a variety of workplace applications. They include the 3M™ Airstream™ Powered Air Respirators with integrated head, eye, face and respiratory protection and the 3M™ Supplied Air Stethoscope System, compatible with 3M™ half and full face masks.

### 3M™ Airstream™ Powered Air Respirators



### 3M™ Supplied Air Stethoscope System



### 3M™ Powerflow Plus™ Powered Air Respirators



### 3M™ Visionair™ Supplied Air Visor



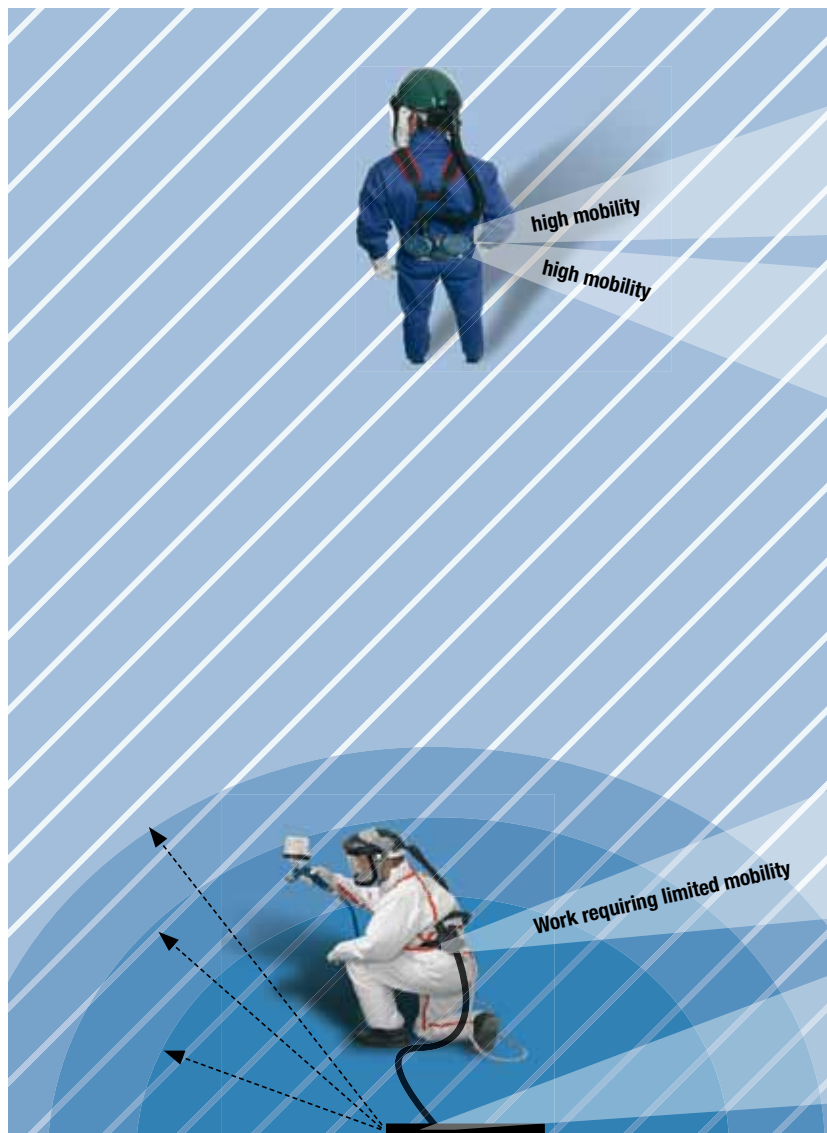
3M's team of Occupational Hygienists and Specialist Representatives are available to assist customers with the selection of the best Powered Air Purifying Respirator (PAPR) solution to meet your needs.

# 3M™ Powered & Supplied Air Respirators



## Mobility Around the Workplace

In many situations, PAPR wearers must be able to move freely from one work area to another. 3M offers a range of PAPR solutions to suit work requiring limited mobility to situations where a high degree of mobility is necessary.



### Powered Air



**3M™ Jupiter™  
Powered Air Turbo**



**3M™ Dustmaster™  
Powered Air Turbo**



**3M™ Airstream™  
PAPR Helmet**



**3M™ Powerflow™  
Turbo Unit with Full  
Facepiece**

### Supplied Air



**3M™ Standard  
Airline™ Belt System**



**3M™ 3 Outlet  
Breathing Air Panel**



**3M™ Visionair™  
Supplied Air Visor**

3M™ Jupiter™ and  
3M™ Dustmaster™ Powered Air Turbo  
**Work requiring high mobility**

3M™ Airline™ and Vortex  
Supplied Air Systems  
**Work requiring limited mobility**





# 3M™ Powered & Supplied Air Respirators



## S-Series Headcovers & Hoods

### Integrated Suspension Headcovers and Hoods

Integrated head suspension models offer the advantages of being fully assembled and ready to use straight out of the box. They can be suitable for applications that require frequent replacement of the entire headtop assembly. The integrated head suspension models also feature a wide face seal with soft elastic for improved comfort and reduced noise.

For disposal, the suspension assembly and air inlet components can be quickly removed and separated for segregated waste streams, where facilities are available.

Integrated head suspension headtops are available in two adjustable sizes to comfortably fit more wearers: Small (S) and Large (L).

### Common Features and Benefits for Integrated Suspension and Premium Resuable S-Series Hoods and Headcovers



#### Improved Visibility

Visors have excellent field of view with reduced curvature for decreased reflection and glare.

#### Improved Shape

Design more closely profiles the wearer's head for improved appearance compared to other designs that tend to peak.

#### All Day Comfort

Lightweight and loose-fitting, can be comfortably worn with prescription eyewear, safety glasses and limited facial hair.

#### Easier to Breathe

With powered and supplied air respirators, breathable air is supplied to the wearer, reducing the additional effort required. This increases wearer comfort at all times, but is especially important during periods of strenuous work.

#### Excellent Airflow

S-Series wearers benefit from excellent airflow distribution for improved comfort and lower noise.

#### Higher Performance/Truly Modular

All S-Series headtops connect to the current modular range of 3M™ Air Delivery Units via the 3M™ BT-Series Breathing tubes. When used with these units, the hoods and headtops meet the highest respiratory performance requirements for this type of product

#### Integrated suspension headcovers and hoods

##### 3M™ Hood S-433S

##### 3M™ Hood S-433L

Head, face, neck and shoulder coverage, as well as providing eye and face protection.

Fabric - Polypropylene laminate



##### 3M™ Hood S-533S

##### 3M™ Hood S533L

Similar to S-433 but with more durable, soft, quiet, low linting fabric that drapes more readily and comfortably over the wearer.

Fabric - Polyurethane coated knitted nylon



##### 3M™ Headcover S-133S

##### 3M™ Headcover S-133L

Head and face coverage, liquid splash and low energy impact. General purpose, cost-effective fabric.

Fabric - Polypropylene laminate



##### 3M™ Headcover S-333SG

##### 3M™ Headcover S-333LG

Similar to S-133 but with a more durable, soft, quiet, low-linting fabric.

Fabric - Polyurethane coated knitted nylon



# S-Series Headcovers & Hoods

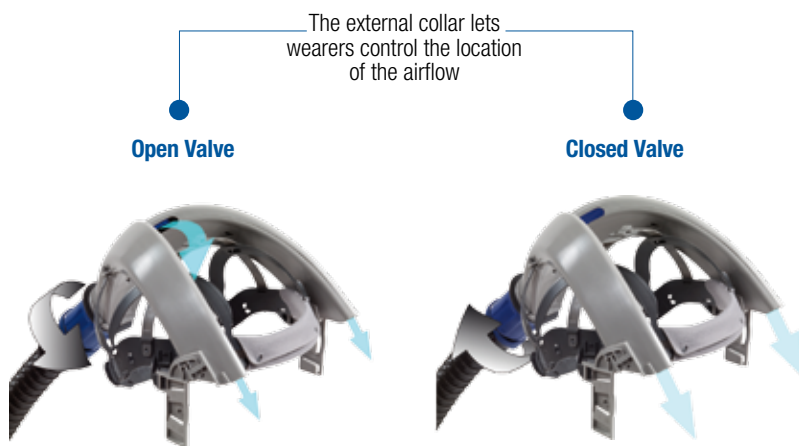
## Premium Reusable Suspension Hoods

Premium reusable head suspension hoods can be a highly cost-effective choice for some high disposal rate environments: just the soiled hood fabric is replaced, while the suspension and air ducting can be reused. The design permits significantly faster user assembly of the entire headtop.

Premium reusable head suspension hoods offer the same level of comfort, fit and field of view as that of the S-Series Integrated Head Suspension Headcovers and Hoods. In addition, the suspension's rigid ducting provides a consistent air path. It also has an externally

adjustable airflow control that allows wearers to modify the airflow distribution to suit personal comfort needs. With a simple turn of the external collar, wearers can shift the location of air flowing over the top of the head to over their temples, face and visor.

The suspension has independent adjustments for the crown size and head circumference, allowing a comfortable, custom fit for a wide range of head sizes. An optional size-reducing comfort pad is provided to even further extend the range of compatible head sizes.



### Premium Reusable Suspension Hoods



#### 3M™ Hood S-655

Head, face, neck and shoulder coverage, as well as providing eye and face protection.  
Fabric - Polypropylene laminate



#### 3M™ S-757

Similar to S-657 but with a fabric specifically intended to help capture paint overspray, minimising the potential for paint to flake off the wearer and onto the work piece. The fabric also has an internal film barrier to help prevent paint contact with skin or clothes.  
Fabric - Polypropylene laminate (double layer)



#### 3M™ Hood S-657

Similar to S-655, this model uses a double shroud design for its respiratory seal; wearers can select between seal designs based on their personal preference. The users wear the S-657 by tucking its inner shroud into a shirt or protective coverall, which allows excess air to be channelled over the body, providing additional comfort.  
Fabric - Polypropylene laminate

# 3M™ Powered & Supplied Air Respirators



## 3M™ No. 4 Headtop

### Painting & Grinding Shields

The \*No. 4 Headtop is based on a conventional lightweight face shield and is designed for use when eye, face and respiratory protection are required simultaneously. It is optionally supplied with a high impact polycarbonate visor that is ideal for applications requiring face protection during machining and finishing work, such as grinding, drilling and milling. It is also available with an acetate visor that is an effective solution for painting applications or working with chemicals.

#### Applications

- + Mixing Processes
- + Spray Painting
- + Chemical Industry
- + Food and Beverage Industry

#### Features and Benefits

- + The acetate visor on the painting shield provides eye and face protection to AS/NZS 1337 medium impact
- + The polycarbonate visor on the grinding shield provides eye and face protection to AS/NZS 1337 high impact standard
- + The innovative Quick Release Swivel (QRS) coupling on the headtop makes it easy to connect and disconnect the breathing tube, and it swivels to avoid loops and kinks in the tube
- + Face seal
- + Spare parts available



**3M™ No. 4 Headtop Painting Shield**  
with acetate visor  
Product Code: 049-00-57P

**3M™ No. 4 Headtop Grinding Shield**  
with polycarbonate visor



Product Code: 049-00-56P



\* All No. 4 Headtops shown can be used on selected 3M Powered Air Purifying Respirators, e.g., a Jupiter (as a JT4) or a Dustmaster (as a DM4) Powered Air Turbo. Can also be used on a 3M Supplied Air Respirator system (as an AL4)



# No. 6 Headtop

## Welding Shield

The 3M™ No. 6 Headtop is based on a conventional lightweight welding shield and designed for use when integrated welding, eye and respiratory protection are required simultaneously. It is supplied with a shade 10 welding lens, anti-spatter lens and lift-up escutcheon for ease of checking work and provides a comprehensive, cost effective solution to a wide array of welding applications.

The No. 6 Headtop is available individually or as part of a full system.

### Features and Benefits

- + Lift-up escutcheon
- + May be used on selected 3M Powered Air Purifying Respirators, e.g., a Jupiter (as a JT6) or a Dustmaster (as a DM6)  
\* refer to footnote
- + Can be used on a 3M Air Supplied Respirator system (as an AL6)
- + Meets performance requirements of AS/NZS 1716 on the respirator systems indicated above
- + Meets the performance requirements of AS/NZS 1338 when fitted with a Standard compliant welding lens
- + Can provide Protection Factors up to 50 (AS/NZS 1715) against mechanically and thermally generated particulates (JT6, DM6, AL6)
- + Can provide Protection Factors up to 10 times or 1000 ppm (AS/NZS 1715) against various gases and vapours (JT6)
- + The innovative Quick Release Swivel (QRS) coupling on the headtop makes it easy to connect and disconnect the breathing tube, and it swivels to avoid loops and kinks in the tube



**3M™ No. 6 Headtop-Welding Shield**  
Product No: 902-03-12



\* The product's data sheet provides Protection Factor information of the headtop when used with various units.

# 3M™ Powered & Supplied Air Respirators



## 3M™ Airstream™ Helmets

The 3M Airstream Helmet is a versatile head-mounted PAPR system where the blower motor and filter components are integrated into the helmet. The helmet is powered by a belt-mounted battery pack. Airstream helmets offer respiratory protection as well as Australian Standards compliant head, eye and face protection. There is a choice of helmet shells for different work applications. Airstream helmets can also be configured for use with belt mounted Dustmaster, Jupiter and Airline breathing air systems.

### Applications

All industrial areas that require eye, face, head and hearing protection, e.g.:

- + Mining
- + Smelting
- + Construction
- + Foundries
- + Tunnelling
- + Welding

### Features and Benefits

- + The polycarbonate visor provides high impact face protection compliant to AS/NZS 1337
- + Lightweight, robust helmet shells provide head protection--AS/NZS 1801 compliant Type 1 Industrial Safety Helmet
- + Quick Release Swivel (QRS) Coupling for ease of use on the No.9 and No. 12 helmets.
- + Head and face seals
- + Positive pressure helps prevent ingress of contaminant into the headtop
- + Integrated turbo motor including filter cartridge and prefilter
- + Can be optionally equipped with earmuffs
- + AH12 Helmet has heat resistant shell, flame retardant head/face seal and reflective safety stripes. Available with optional heat resistant cover.
- + Spare parts & optional accessories available



### 3M™ Airstream™ Industrial Helmet AH12 with NiCd Battery

Product No: 902-02-93

### 3M™ Airstream™ Industrial Helmet AH12 with NiMH Battery

Product No: 902-02-95

Main filter and charger for AH12 Helmets available separately



### 3M™ Airstream™ Coal Mining Helmet AH6TM

Product No: 902-02-61

### 3M™ Airstream™ Hard Rock Mining Helmet AH6HRM

Product No: 902-02-64

Both helmets incorporate pivoting cap lamp mounting bracket and are fitted with reflective safety stripes. Cap lamp and battery not included



### 3M™ Airstream™ Welding Helmet AH9 with NiCd Battery

Product No: 902-00-50

### 3M™ Airstream™ Welding Helmet AH9 with NiMH Battery

Product No: 902-02-96

Includes anti-scratch visor and surround, high efficiency air turbo, Pre-filter & PAPR-P2 particulate main filter, main filter expander, head/face seal, shoulder cape, nod down welding shield with shade 11 filter, battery, storage container and user instructions

Battery Charger sold separately

### Filters (ordered separately)

Main Filter - PAPR-P2 Heavy Duty  
Product No: 060-23-04P

Main Filter - PAPR-P2  
Product No: 060-23-06P

Main Filter - PAPR-GP2  
Product No: 060-23-11P

Main Filter - PAPR-P1 Heavy Duty  
Product No: 060-23-16P

Main Filter - PAPR-P2 HF S02  
Product No: 060-23-20P

Pre-Filter  
Product No: 060-22-00P

### Turbo Connected Headtops



#### 3M™ No. 9 Headtop

Product No: 902-02-94

Airstream style welding helmet with visor and QRS. Includes nod down welding shield, high impact anti-scratch visor, head/face seal, shoulder length welding cape and optional glare filter for oxy-cutting. Available with Auto-Darkening Filter (ADF) option.



#### 3M™ No. 12 Headtop

Product No: 902-01-66

Airstream style helmet. Includes high visibility safety striping, high impact visor, head/face seal, flame retardant head band and user instructions.



## 3M™ L901 & L905 Lightning Helmets

The L901 and L905 are integrated, fully enclosed helmets providing head, face, eye and respiratory protection. These helmets include a high impact visor and soft neck seal. The L901 is a wide-view helmet with clear visor, whilst the L905 is designed for use as a welding helmet and also includes a nod down welding shield and flame retardant neck cape.

### Applications

- + Mining
- + Smelting
- + Construction
- + Foundries (grinding, polishing)
- + Welding

The headgear for both the L901 and L905 is lightweight and well balanced. These helmets provide comfort and high protection levels.

They can be worn with eyeglasses and facial hair.

### Features and Benefits

- + Wide-view lens allows for excellent peripheral and downward vision and provides AS/NZS 1337 compliant high impact face protection
- + 4 Point adjustable helmet suspension
- + Neck Cape (L901: anti static; L905: flame retardant)
- + Durable polycarbonate/polyester resin helmet shell provides AS/NZS 1801 compliant Type 1 Industrial Safety Helmet protection.
- + Helmets offer AS/NZS 1716 compliant respirator head and face covering
- + L905 also supplies AS/NZS 1338 welding protection when fitted with a suitable welding lens (133mm x 114mm)
- + Spare parts available



### 3M™ L901 Headtop

Lightning Helmet with QRS  
Product No: 902-01-75



### 3M™ L905 Headtop

Lightning Welding Helmet with QRS  
Product No: 902-01-76

Included is a nod down welding shield, neck cape, high impact visor & surround, flame retardant head band and user instructions.

Welding lens (light filter) not included



The L901 and L905 Headtops can be combined with the following 3M™ Powered and Supplied Air Systems:

- 3M™ Jupiter™ PAPR System
- 3M™ Dustmaster™ PAPR System
- Standard Supplied Air System
- Supplied Air Cooling Vortex System
- Supplied Air Heating Vortex System

# 3M™ Powered & Supplied Air Respirators



## 3M™ Jupiter™

### Powered Air Turbo Unit

The 3M™ Jupiter™ is a comfortable, easy-to-use powered air purifying turbo unit that provides protection against solid particulates, gases or vapours, or against a combination of these depending on the types of filter cartridges used. An integrated acoustic and visual alarm indicates if airflow to the headtop is reduced or battery charge runs low. The Jupiter Powered Air Turbo is also available with an optional \*Intrinsically Safe (IS) cover and battery. The Unit can be ordered with your choice of 3M Headtops.

#### Applications

- + Metalworking
- + Automotive Industry
- + Demolition and Stripping
- + Painting
- + Chemical and Pharmaceutical Industry
- + Agriculture
- + Woodworking
- + Mining

#### Features and Benefits

- + ON/OFF switch with control module
- + Breathing tube connection
- + Decontamination comfort belt for a improved fit and easier cleaning
- + Filter connection
- + Modern, ergonomic design
- + Minimal maintenance required
- + Can be worn in decontamination shower
- + Intrinsically Safe model can be used in potentially explosive atmospheres. Certified IS to EN50020 EEX ib IIB T3 IP63 using I.S. Pouch and Battery
- + Optional braces available
- + Intelligent battery charger to optimise battery life
- + Spare parts and optional accessories available



#### 3M™ Jupiter™ Powered Air Turbo Unit

Product No: 902-01-79

#### Unit includes:

- + Turbo Case
- + Air Blower
- + Decontamination Belt
- + Jupiter 8-hour standard battery
- + User Instructions

#### 3M™ Jupiter™ Powered Air Turbo with IS Cover

Product No: 902-03-00

#### Unit includes:

- + Turbo Case
- + Air Blower
- + Decontamination Belt
- + Jupiter 4-hour IS Battery and IS Battery Pouch
- + User instructions

#### Filters (ordered separately)

Filter Cartridge - PAPR-P3  
Product No: 450-00-25

Filter Cartridge - PAPR-A1P3  
Product No: 453-00-25

Filter Cartridge - PAPR-A1B1E1K1P3  
Product No: 453-09-25

Pre-Filter Disc  
Product No: 461-00-02P24

#### Optional Accessories Include

- Single Station Battery Charger
- QRS Breathing Air Hose (optional Standard and Heavy Duty)
- 10 Station Battery Charger
- Flame Retardant Breathing Hose Cover
- Jupiter IS Battery and IS pouch
- Safety Kit Carry Bag
- Braces for Jupiter Belt

\* Refer to relevant State approvals for compliance requirements.



# 3M™ Dustmaster™

## Powered Air Turbo Unit

The 3M™ Dustmaster™ Powered Air Purifying Respirator is a belt-mounted turbo unit that incorporates a blower unit, lightweight 8-hour battery and PAPR-P2 filter. This industry proven system is simple to use and protects against dusts, welding fumes and nuisance\* odours. It can be combined with any Quick Release Swivel (QRS) Headtop and can be purchased with your choice of 3M Headtop.

### Applications

- + Metalworking
- + Woodworking
- + Welding

### Features and Benefits

- + Breathing tube connection
- + Battery charger connection – No need to remove battery for charging
- + Belt
- + Durable housing
- + Minimal maintenance required
- + Dustproof ON/OFF switch
- + Easy to clean
- + Compact, lightweight construction
- + Robust, industry proven design
- + Integrated particulate filter
- + Replaceable filter cartridge (optional prefilter)
- + Excellent value product offering low cost protection & productivity benefits
- + Spare parts and optional accessories available



### 3M™ Dustmaster™ Powered Air Turbo Unit

Product No: 021-00-38P

#### Unit includes:

- + Unit includes:
- + Turbo Case
- + Air Blower
- + Standard Belt
- + Dustmaster battery pack
- + PAPR P2 filter
- + User Instructions

#### Filters (ordered separately)

Main Filter - PAPR-P2  
Product No: 451-00-02P

Main Filter - PAPR-GP2+Charcoal  
Product No: 451-01-02P

Main Filter - PAPR-P3  
Product No: 451-02-20

Pre-filter  
Product No: 462-05-00P10

#### Optional Accessories Include:

- + 4 Station Battery Charger
- + QRS Breathing Air (optional Standard and Heavy Duty)
- + Flame Retardant Breathing Hose Cover
- + Decontamination Belt with clip
- + Storage Bag
- + Charging Adaptor
- + Tote Bin



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



# 3M™ Powered & Supplied Air Respirators



## 3M™ Standard Airline

### Belt System

The 3M™ Standard Airline Belt System consists of a belt, air regulating valve/muffler assembly and QRS Breathing Hose that can be combined with all 3M modular headtops and ensures an individually adjustable, constantly controlled airflow. The Airline requires a working pressure of 25-60 psi (1.7 bar to 4.1 bar) dependent on the length of the breathing air hose.

There is an option of four varying length breathing air hoses to connect the 3M Standard Airline System to the compressed air supply. An approved Breathing Air Panel should be connected in-line to purify

the compressed air before it is fed to the air regulator. The various components of the Standard Airline System are connected using CEJN plug and socket hose couplings. The use of a continuous flow airline system can provide high protection factors in environments containing high levels or unknown contaminants.

### Applications

- + Chemical and Pharmaceutical industry
- + Spray Painting
- + Metal Finishing

### Features and Benefits

- + QRS Breathing tube connecting port
- + Compressed air connection
- + Easy to clean
- + Air flow 170-425 L/min
- + When used with AS/NZS 1716 compliant airline hose, meets performance requirements of this standard



### 3M™ Standard Airline Best System

Product No: 902-02-17

### System includes:

- + Belt
- + Air regulating valve & muffler
- + CEJN fitting
- + Standard QRS breathing air hose
- + User instructions



# 3M™ Vortex

## Air Cooling/Heating Regulator

A Vortex Air regulating valve is a personal air conditioning unit on your belt. In many areas of industry, workers are sometimes exposed to uncomfortably high or low temperatures in addition to high concentrations of hazardous contaminants. These are the kinds of situations where Vortex regulators are ideal for use in conjunction with the air respirator system to either cool or heat the wearer's incoming supplied air by up to 25°C.

### Applications

- + Heavy Industry
- + Foundries (high radiant heat)
- + Construction Industry (cold outdoor temperatures)
- + Manufacturing

### Features and Benefits

- + Breathing Tube connection or muffler
- + Compressed air connection
- + Working Pressure 60-85 psi depending on airline breathing hose length
- + Air volume 170-425 L/min
- + Adjustable temperature controller
- + Compact and lightweight - 575gms including belt and hose
- + Meets performance requirements of AS/NZS 1716



**3M™ Vortex Cooling Kit**  
Product No: 902-02-18

### Kit includes:

- + Vortex cooling regulator
- + Insulating Pad & Belt
- + Muffler
- + Standard QRS Breathing Hose & Connector
- + User instructions



**3M™ Vortex Heating Kit**  
Product No: 902-02-85

### Kit includes:

- + Vortex heating regulator
- + Insulating Pad & Belt
- + Muffler
- + Standard QRS Breathing Hose & Connector
- + User instructions



# 3M™ Powered & Supplied Air Respirators



## 3M™ Breathing Air Tubes

A breathing tube connecting the breathable air source with the headtop is required to ensure that clean air reaches the headtop reliably and with unrestricted airflow. The breathing air tubes offered are compatible with all 3M modular headtops and filter units (AFU). You can choose either a standard polyurethane breathing tube or a heavy duty rubber breathing tube.

An optional flame retardant sleeve extends the life of the breathing tube by providing protection from welding and/or grinding sparks.





# 3M™ Supplied Air Systems

## Breathing Air Panels

3M™ Breathing Air Panels feature a 2-stage filtration system that is capable of delivering regulated breathable compressed air to all variations of 3M Supplied Air respiratory protection systems. 3M Breathing Air Panels are available either as a 1 person or 3 person configuration.

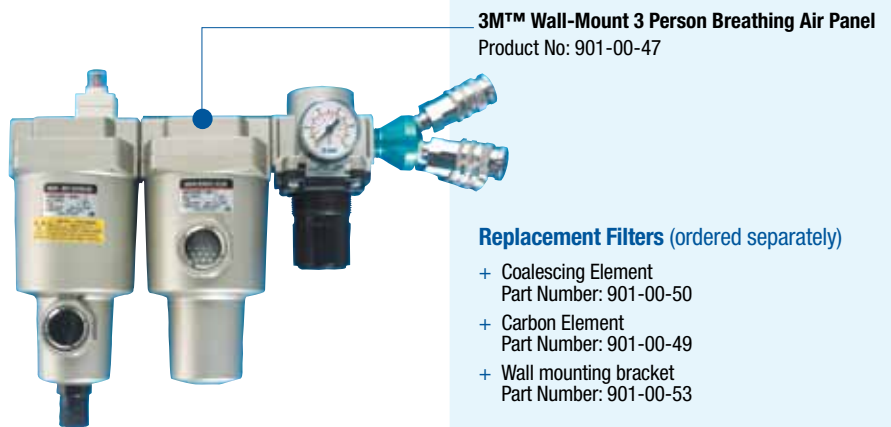
3M Breathing Air panels are extremely versatile, with air filters capable of supplying clean breathable air from mineral, synthetic and oil-free compressed air systems.

### Features and Benefits

- + Compact dimensions allow all mounting in tight spaces
- + Standard wall mount bracket allows easy installation near location of use
- + Portable option stand alone frame assembly allows on-site work (available for 1 Outlet Panel only)
- + Breathable air filters and filter elements are silicone free
- + Outlet supplied with double action CEJN fitting compatible with 3M Airline breathing hoses
- + Spare parts and optional accessories available

### Applications

- + Spray Painting & Powder Coating
- + Chemical Batch Mixing
- + Pharmaceutical Manufacturing
- + Chemical batch mixing



**3M™ Wall-Mount 3 Person Breathing Air Panel**  
Product No: 901-00-47

### Replacement Filters (ordered separately)

- + Coalescing Element  
Part Number: 901-00-50
- + Carbon Element  
Part Number: 901-00-49
- + Wall mounting bracket  
Part Number: 901-00-53



**3M™ Wall-Mount 1 Person Breathing Air Panel**  
Product No: 901-01-07

### Replacement Filters (ordered separately)

- + Coalescing Element  
Part Number: 901-01-09
- + Carbon Element  
Part Number: 901-01-10

**CAUTION:** These filter panels will not remove certain types of gases including Carbon Monoxide (CO) and Carbon Dioxide (CO<sub>2</sub>)

Where required by supply air quality and to extend filter life, 3M recommends that a water separator and 1 micron particulate filter are installed prior to the filter panel.

# 3M™ Powered & Supplied Air Respirators



## 3M™ Supplied Air Breathing Hoses

3M offers a range of compressed air breathing hoses that can be connected to our broad range of supplied air respiratory solutions. The hoses are available in four different lengths and they guarantee high quality connection to all components.

### Features and Benefits

- + PVC hose manufactured to meet requirements of AS/NZS1716 and AS2299
- + 3M Airline hoses are fitted with CEJN Series 342 Safety Couplings
- + Couplings are made from chrome-plated brass/steel
- + Locking sleeve and nipple are made of hardened steel
- + Distinctive yellow colour
- + Outer cover marked with AS1716 Breathing Air to indicate suitability for use
- + Hoses marked with manufacture date



### 3M™ Supplied Air Breathing Hoses

**3M™ Breathing Hose – 7.5m Length**  
Product No: 901-00-56

**3M™ Breathing Hose- 10m Length**  
Product No: 901-00-55

**3M™ Breathing Hose- 15m Length**  
Product No: 901-00-54

**3M™ Breathing Hose- 30m Length**  
Product No: 901-00-63



## 3M™ Powerflow Plus™ PPR

The 3M™ Powerflow Plus™ PPR consists of a 3M™ 6800DIN Full Face Respirator and facepiece-mounted turbo unit with P3 filter. The Powerflow Plus system offers effective respiratory protection against potential health hazards when stripping or disposing of asbestos containing materials. The motor is shower proof and the whole unit can be effectively decontaminated.

The 6800 Full Face Respirator has the ability to be converted for use as a negative pressure respirator.

### Applications

- + Asbestos abatement

### Features and Benefits

- + Lightweight full facepiece with wide viewing area (panorama vision)
- + High impact rated visor AS/NZS 1337
- + Equipped with one P3 filter for use against solid and liquid aerosols
- + Compact turbo unit with DIN threads
- + Belt-mounted 8-hour system battery
- + Electronic battery charger
- + Smooth shape allows easy decontamination
- + 6000 Series Powerflow Plus full facemask meets requirements of AS/NZS 1716



### 3M™ Powerflow™ Plus 6800 + NiCd Battery

Product No: 902-02-12

#### Includes:

- + 6800DIN Series Full Face Respirator
  - + High impact lens
  - + Waterproof motor
  - + PAPR-P3 particulate filter
  - + 8-hour NiCd battery
  - + User instructions
- Battery Charger sold separately

### 3M™ Powerflow™ Plus 6800 + NiMH Battery

Product No: 902-03-22

**Filter** (for above products) sold separately

Filter Cartridge - PAPR-P3

Product No: 450-00-02P

#### Includes:

- + 6800DIN Series Full Face Respirator
  - + High impact lens
  - + Waterproof motor
  - + PAPR-P3 particulate filter
  - + 8-hour NiMH battery
  - + User instructions
- Battery Charger sold separately

### Accessories Available

- + Battery Charger
- + Storage Bag
- + Battery Pouch Water Repellent
- + Waist Belt

# 3M™ Powered & Supplied Air Respirators



## 3M™ Supplied Air Stethoscope Systems

The 3M™ Supplied Air Stethoscope System is the most comfortable and versatile supplied air system. It can be fitted to 3M™ 6000 Series Full Face or Half Face Respirators, as well as 7500 Series Half Face respirators. The system provides AS/NZS1716 compliant continuous flow positive pressure in a lightweight assembly.

### Applications

- + Painting
- + Boat building
- + Pharmaceutical Manufacturing
- + Chemical Batch Mixing
- + Powder Coating
- + Confined space work

Offering comfort and high protection levels, this system has a robust, low profile, innovative design.

### Features and Benefits

- + Flow rate is adjustable for individual comfort
- + No breathing resistance
- + Ability to fit filters as well as the Airline on the facemask for protection when disconnected from Airline supply (SA-2100 only)
- + Fitted with CEJN Type 342 fittings for connection to 3M Airline breathing hoses.
- + Provides Protection Factors (AS/NZS 1715) of up to 50 when fitted to 3M half face respirators and 100+ when fitted to 3M full face respirators
- + Can be optionally combined with all 2000, 5000 and 6000 Series Filters by 3M
- + Complete system (SA-2000) available with medium or large 3M 6000 series reusable full face respirator
- + Other optional accessories available



### 3M™ SA-2000 Stethoscope Breathing Tube Set

Single connection to facemask  
Product No: 901-00-71



### 3M™ SA-2100 Combination Stethoscope Breathing Tube Set

Dual connection-has the capability of fitting negative pressure filters as well as positive pressure airline on the facemask for the maintenance of respiratory protection when the supplied air is disconnected.  
Product No: 902-03-15



### 3M™ Full Facepiece System –Medium

Product No: 68SA2

### 3M™ Full Facepiece System- Large

Product No: 69SA2



## 3M™ Visionair™ Supplied Air Visor System

The 3M™ Visionair™ - 500HVA supplied air visor system with acetate nod down painting shield, foam face seal, breathing tube and integrated airflow indicator offers a versatile stand alone solution for spray painting applications.

The Visionair Visor system, which is supplied with a belt regulator with spray gun take off allows a single air line to supply air simultaneously to both the Visor and spray gun.

### Features and Benefits

- + Adjustable flip-up acetate visor with medium impact visor rating (AS/NZS 1337)
- + Protective silicone-free hood for neck and hair
- + Choice of left or right- handed mounting capabilities
- + Nuisance odour filter
- + Adjustable air flow
- + High respiratory protection class approved to AS/NZS 1716
- + Y-piece takeoff fitting allowing connection to HVLV paint spray guns
- + Protection Factor 100+
- + Airline couplings are CEJN fittings
- + Spare parts and optional accessories available



**3M™ Supplied Air Visor System - 500HVA**  
Product No: 902-00-67

### Includes:

- + Acetate nod down paint shield
- + Foam face seal
- + Narrow bore breathing tube
- + Integrated airflow indicator
- + Belt regulator
- + Spray gun take-off hose
- + CEJN fitting

### Optional Accessories Include:

- + Face Seal
- + Brow Seal
- + Acetate Visor
- + Sweat Band
- + Head Cape
- + Visor overlay
- + Filter cartridge and bowl gasket

3M™ Visionair™  
500HVA Painting System  
showing Y-piece takeoff  
fitting for spray gun.







Work

in a World of

Comfort



## DEDICATED TO WORKER PROTECTION

3M has a long history of applying its innovative materials to the challenges of worker protection. In 1972, 3M introduced the first US government approved filtering facepiece respirator.

Today, as one of the world's leading suppliers of respiratory protection, our goal is to ensure that we satisfy your needs through exceptional leadership, expertise, quality and service. Our success begins with our ability to apply our technologies – often in combination – to an endless array of real-world customer needs, such as worker protection systems.



### Credibility & Leadership

3M produces thousands of imaginative products, and we are a leader in scores of markets, including the global respiratory protection industry. With sales in nearly 200 countries, 3M has 76,000 employees worldwide. Our specialized distribution networks can help your workforce in the careful selection of, and training in, respiratory equipment.

### Proven Solutions

Workers want respiratory protection equipment that is comfortable, lightweight and convenient. 3M delivers protection products that are high quality, high comfort, professional grade equipment, advanced over years of research and development, customer feedback, and customer success.



### And Now: 3M™ Versaflo™ respirator systems

The new 3M Versaflo respirator systems represents an enormous effort by 3M to accomplish three major goals:

- simplify the equipment selection process
- increase system versatility
- improve user comfort every step of the way



## INTRODUCING A HIGHLY VERSATILE RANGE OF RESPIRATOR SYSTEMS

Many users of half and full facepiece respirators are taking a second look at powered and supplied air systems for reasons that go beyond mere compliance.

3M™ Versaflo™ Respirator Systems are a comprehensive approach to worker protection systems based on comfortable-to-wear modules.



### Integrated Protection

Safety managers can configure modules and accessories to help protect users from a variety of combined hazards.

### Flexibility

Each system has three easy-to-select modules – an air delivery unit, a headtop and a breathing tube—that can be combined into dozens of system configurations. It is the ultimate in flexibility for handling changing user environments, needs, and comfort preferences.

### All-Day Comfort

With 3M Versaflo Respirator Systems, pressure on the face, breathing resistance, and heat build-up are all greatly reduced when compared to non-powered and supplied air tight-fitting facepieces, creating all-day comfort for the user.

### Easier To Breathe

With 3M Versaflo Respirators, flowing air is provided to the user, reducing the additional breathing effort required for half

and full facepiece respirators. This increases user comfort at all times, but is especially important during periods of strenuous labour.

### Excellent Airflow

3M™ Versaflo™ Headtops direct a comfortable stream of flowing air to where workers need it most: the head and face. The moving airflow can make hot environments more tolerable while greatly reducing visor fogging. And, when using the appropriate 3M™ Versaflo™ Supplied Air Regulator, the airflow can also be made cooler or warmer when working in hot or cold environments.

### Easy x Three

Easy-to-select. Easy-to-use. Easy-to-maintain. For instance: most replacement parts can be installed by hand or with common tools (like a screwdriver) in a matter of moments.

## New Levels of Simplicity

- Easy to select compatible modules.
- The 3M™ Versaflo™ TR-300 turbo unit is equipped with automatic flow control, low battery alarm, and low flow alarm.
- Most user interface/adjustment-points highlighted in blue for convenience.
- QRS (Quick Release Swivel) breathing tubes allow fast and easy connection.
- Easily removable parts allow simple cleaning, maintenance and replacement.
- Many common parts across the range.
- Accessories and options to suit different applications.



## New Levels of Comfort

- Lightweight, compact and well-balanced designs.
- Breathable air is provided to the wearer; reducing the additional breathing effort required.
- Adjustable airflow feature distributes airflow where the user wants.
- Quiet system with reduced motor noise and air whistling.
- Soft face seals and inner collars.
- Multiple size adjustment options allow for a comfortable fit.
- Provides excellent peripheral and downward vision.

## PROTECTION AGAINST MULTIPLE HAZARDS

**Respiratory Protection**



**Eye, Face and Hearing Protection**



**Head Protection, Neck/Shoulder Coverage**



# Modular means versatile

## 3M™ VERSAFLO™ RESPIRATOR SYSTEMS ARE EASY TO SELECT

### 3M™ Versaflo™ S-Series Headtops



3M™ Versaflo™ S-133/333G  
Integrated Headcover



3M™ Versaflo™ S-433/533  
Integrated Hoods



3M™ Versaflo™ S655/657/757/855E  
Reusable Suspension Hoods

### 3M™ Versaflo™ M-Series Headtops



3M™ Versaflo™ M-106/107  
Faceshields



3M™ Versaflo™ M-306/307  
Helmets



3M™ Versaflo™ M-406/407  
Helmets with Shrouds

### 3M™ Versaflo™ BT-Series Breathing Tubes



#### 3M™ Versaflo™ BT-20 S&L Breathing Tube

Lightweight breathing tube that comes in two lengths and is easy to wipe down.

Material: Polyurethane.  
Length: 735 mm (S), 965 mm (L).



#### 3M™ Versaflo™ BT-30 Breathing Tube

Self-adjusting length for improved fit for all wearers and reduce risk of catching and snagging.

Material: Polyurethane.  
Length: 525 - 850 mm.



#### 3M™ Versaflo™ BT-40 Breathing Tube

Heavy-duty breathing tube.

Material: Neoprene.  
Length: 840 mm.



#### Accessories

BT-922: Disposable breathing tube cover.

BT-926: Flame resistant breathing tube cover

### 3M™ Powered Air Respirators



3M™ Versaflo™ TR-300  
Powered Air Respirator



3M™ Jupiter™  
Powered Air Respirator

### 3M™ Versaflo™ Supplied Air Regulators



3M™ Cooling Vortex  
Assembly V-100



3M™ Heating Vortex  
Assembly V-200



3M™ Versaflo™ V-500E  
Regulator

## Four Steps to the Right Respirator:

1. Choose your Air Delivery Unit

2. Choose your Headtop

3. Choose the appropriate Breathing Tube

4. Choose your options and accessories

# 3M™ Powered and Supplied Air Delivery Units

## INTRODUCING 3M™ VERSAFLO™ TR-300 POWERED AIR RESPIRATOR

The all-new, lightweight 3M™ Versaflo™ TR-300 Powered Air Respirator is the key to an easy-to-use, versatile, respirator system for environments with hazardous particles.

### Lighter & Smaller

- The turbo has a slim profile designed for use in tight spaces.
- The weight of the turbo is only 1 095 g (including particulate filter, high-capacity battery and standard belt). The curved design of the TR-300 means that it can be worn close to the user's back, reducing the leverage effect that can cause turbos to feel heavier.
- The compact shape and air inlet design helps make sitting possible without compromising the airflow intake.

### Controlled Airflow

- Sophisticated electronics keep the factory-calibrated airflow at a nominal 190 l/min, eliminating the need for regular calibration by the user. Even as the battery discharges, or the filter becomes loaded with particulates, the unit delivers a steady flow of air.



### Simple Yet Comprehensive Controls

- An audible and LED alarm both signal to the user when there is either low battery charge or low airflow – for example, due to a fully-loaded particle filter.
- LED lights on the battery itself indicate its charge status.

### Intelligent Power

- The high-capacity battery runs for at least 10-12 hours (with new filter and fully charged battery). Recharging time is less than 3.5 hours.
- The lightweight lithium ion battery quickly charges and has no memory effect or heavy metals. It can be easily removed for charging.
- Intelligent chargers help maintain the optimum battery performance and are available in single-battery or four-battery stations.

Please see the data on the headtop used with the unit for information on protection factors.

## Straightforward, Minimal Maintenance

- All maintenance can be done by hand. The battery, filter and pre-filter can all be changed quickly and easily by hand.
- The belt and turbo unit have smooth surfaces with facilitating fast wipe downs for easier cleaning.
- IP53 rating. Suitable for use in decontamination shower.
- A window on the turbo allows instant identification of the installed filter.
- Durable brushless motor for superior reliability.



## Options For Diverse Environments

- Filters:
  - Pre filter
  - Particulate filter
  - Particulate filter that also reduces nuisance-level organic vapours.\*
  - Particulate filter that also provides protection against hydrogen fluoride with performance up to 10 x the Exposure Standard value as well as offering nuisance-level acid gas performance\*.
- For welding and grinding applications, a spark arrestor reduces the risk that sparks and other hot materials will come in contact with the filter and motor.
- Belts:
  - Standard webbing belt
  - Coated, easy-clean belt
  - Spark-resistant, leather belt for heavy-duty applications
  - Braces and a backpack are also available.
- High-Capacity battery.
- Single Charger and 4-Station Battery Charger kit.



\*Nuisance level" refers to concentrations below the occupational exposure limit (OEL).

## 3M™ Versaflo™ TR-302E Turbo Unit

The 3M Versaflo TR-302E Turbo Unit comes with a filter cover and an airflow indicator only.

## 3M™ Versaflo™ TR-315E Starter Kit

This 3M Versaflo TR-315E Starter Kit (photo) includes the TR-300 turbo unit, particulate filter, pre-filter, standard belt, high capacity battery pack, battery charger kit (not shown), self-adjusting breathing tube and airflow indicator.



## 3M™ Powered and Supplied Air Delivery Units



### 3M™ JUPITER™ POWERED AIR RESPIRATOR

#### Protection from particulates and/or gases and vapours

The existing 3M™ Jupiter™ Powered Air Respirator is fully compatible with all 3M™ Versaflo™ Headtops and Breathing Tubes. The 3M Jupiter Respirator provides respiratory protection against particulate and gaseous contaminants (particulate only and combined particulate/gas and vapour filters are available).

Ergonomically designed to sit at the base of the user's back, the unit's low weight is carried mostly on the user's hips via the wide decontamination belt. As a result, the 3M Jupiter Respirator is comfortable enough to wear for entire work shift. Includes decontamination belt, airflow indicator and calibration tube.



#### User benefits:

- Modern, ergonomic design
- 3 filters for wide range of applications
- Decontamination belt for improved fitting and easy cleaning.
- IP53 rating. Can be worn during shower decontamination.
- 3M™ Jupiter™ Intrinsically Safe Kit option
- Optional braces
- Audible and visual alarms
- Intelligent battery charger, with 10-station charger available. Economy (4 hours) or High-Capacity (8 hours) batteries.
- Meets the performance standards of AS/NZS1716



#### 3M™ Jupiter™ Powered Air Turbo Unit

3M Jupiter Starter Kit (see photo) includes a standard 3M Jupiter turbo including decontamination belt and clip, air flow indicator, calibration tube and Nickel Metal Hydride (NiMH) battery pack.

Please see the data on the headtop used with the unit for information on protection factors.

## 3M™ Powered And Supplied Air Delivery Units



### 3M™ VERSAFLO™ V-SERIES SUPPLIED AIR REGULATORS

#### 3M™ Versaflo™ V-500E Regulator

3M Versaflo V-500E Regulator ensures an individually-adjustable, consistently-controlled airflow. The regulator requires a working pressure of 3.5-8 bar and is extremely quiet due to the integrated silencer (<65 dBA). An integrated warning whistle warns the user of low airflow into the headtop.

- Complies with performance standard AS/NZS 1716:2003
- Airflow: 170-305 l/min
- Weight: 550 g



#### 3M™ V-100 Cooling Vortex and V-200 Heating Vortex Air Regulators

3M V-100 and V-200 air regulators allow wearers to either cool (V-100) or heat (V-200) the air by as much as 28°, making them a good choice for workers exposed to either uncomfortably hot or cold temperatures.

- Regulator requires a working pressure of 4-6 bar.
- Complies with performance standard AS/NZS 1716:2003
- Airflow: 170-500 l/min
- Weight: 605 g (V-100), 499 g (V-200)



V-100 Cooling Vortex



V-200 Heating Vortex

Please see the data on the headtop used with the unit for information on protection factors.



## Comfortably Worn By More Users

Based on a computer modeling of a worldwide sampling of head sizes, new 3M™ Versaflo™ S-Series Suspensions, through their sizing and adjustment options, will comfortably fit more users than previous models. Their loose-fitting designs can mean more comfort for the entire shift when compared to tight-fitting alternatives.



## Improved Visibility

The visors have an excellent field of view, particularly downwards, with reduced curvature for decreased reflections and glare.

Their new design minimises the potential for visor creasing and visual distortion.

## Improved Shape

The new designs of 3M Versaflo S-Series Headcovers and Hoods more closely profile the user's head for improved appearance compared to some designs that tend to "peak."

## Excellent Airflow

All 3M™ Versaflo™ S-Series Headtop users benefit from excellent airflow distribution for improved comfort, lower noise and reduced fogging.

## Added Protection

3M Versaflo S-Series Headcovers and Hoods meet the highest respiratory performance requirements for this type of product when used with specific 3M™ Air Delivery Units. In addition they also provide eye and face protection – liquid splash and low energy impact.

## Integrated Suspension Headcovers and Hoods

Ready to use straight out of the box. Permits fast replacement of soiled hoods  
Available in two adjustable sizes: Small (S) and Large (L)



**3M™ Versaflo™ S-133 Headcover**  
General purpose, cost-effective fabric.

Fabric material: Polypropylene coated non-woven polypropylene.  
Visor material: PETG.



**3M™ Versaflo™ S-333G Headcover**  
Soft, quiet, more durable low-linting fabric.

Fabric material: Polyurethane coated knitted polyamide.  
Visor material: Coated polycarbonate. for increased chemical and scratch resistance.



**3M™ Versaflo™ S-433 Hood**  
Includes neck and shoulder coverage.

Fabric material: Polypropylene coated non-woven polypropylene.  
Visor material: PETG.



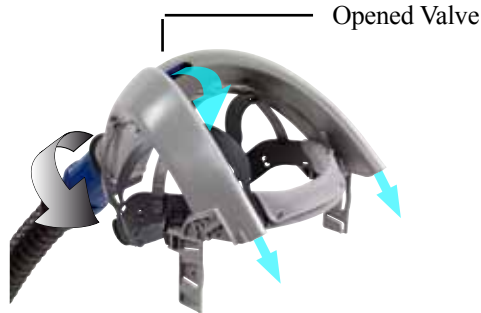
**3M™ Versaflo™ S-533 Hood**  
Neck and shoulder coverage with soft, low-linting fabric that more readily drapes over user.

Fabric material: Polyurethane coated knitted polyamide.  
Visor material: Coated polycarbonate for increased chemical and scratch resistance.



## INNOVATIVE SUSPENSION WITH ADJUSTABLE AIRFLOW

\* The externally adjustable collar allows wearers to control direction of airflow for personal comfort.



\* Reusable suspension hoods only.



### Respiratory protection standards - Versaflo S-Series Hoods & Headcovers

3M™ Air Delivery Unit	Standard	RMPF **
TR-300	AS/NZS1716	50 (Particles)
Jupiter	AS/NZS1716	50 (Particles) 10 (Gas/Vapour)
V Series	AS/NZS1716	100 (Particles) 100+ (Gas/Vapour)



reddot design award  
winner 2010

\*\* Required Minimum Protection Factor

## Premium Hoods with Reusable Suspensions

Cost effective choice for some high disposal rate environments. Just the soiled hood fabric is replaced, while the suspension and air ducting can be reused. User control of airflow location and suspension adjustments for best comfort and custom fit.



**3M™ Versaflo™ S-655 Hood**  
General purpose, with knitted inner collar that is shorter and thinner than previous models.

Fabric material: Polypropylene coated non-woven polypropylene.  
Visor material: PETG.



**3M™ Versaflo™ S-657 Hood**  
Features a double-shroud design for its respiratory seal.

Fabric material: Polypropylene coated non-woven polypropylene.  
Visor material: PETG.



**3M™ Versaflo™ S-757 Painters Hood**  
Fabric specifically intended to help capture paint overspray.

Fabric material: Polypropylene coated non-woven polypropylene.  
Visor material: PETG.



**3M™ Versaflo™ S-855E Hood**  
Sealed seam hood for liquid chemical splash environments.

Fabric material: Zytron® 200.  
Visor material: Coated polycarbonate

Zytron® is a registered trademark of Kappler.

## HIGHLY VERSATILE RIGID HEADTOPS

- All-new 3M™ Versaflo™ M-Series Headtops feature lightweight, compact and well-balanced faceshields and helmets that can offer integrated protection from a range of respiratory, head, eye and hearing hazards, with offerings for neck and shoulder coverage.
- The M-100 Faceshield and M-300 & M-400 Helmets, meet the highest standard of respiratory protection for this type of solution when integrated with the relevant 3M Air Respirator system.

## Modern, Well Balanced Comfortable Design

- Lightweight, with excellent balance.
- Fully-adjustable suspension that includes textile straps for optimal fit and weight distribution.
- A deflector allows users to direct the airflow inside the headtop for increased control and comfort.



## Versatility

- To suit a wide range of needs, industries and applications, 3M Versaflo M-Series headtops offer faceseals and shrouds in various fabrics.
- Accessories include ear-muffs, peel-off's, head covers and a chin strap.

## New Visor

- A new visor design combines excellent peripheral and downward vision with good optical clarity.
- Coated visors provide added chemical and scratch resistance.

## Easy To Maintain

- Many parts are common to all 3M Versaflo M-Series headtops, meaning reduced inventories and downtime.
- Spare parts and accessories are quick and easy to replace; for example, visors easily slide into place and are secured by quickly snapping two buttons.



**3M™ Versaflo™ M-100 Series Faceshields** for respiratory, eye and face protection:

**M-106** features a comfortable faceseal for dusts, spraying and chemical processing. Fabric material: polyurethane coated polyamide.

**M-107** features a flame resistant faceseal for applications with hot particles. Fabric material: flame resistant polyester.



**3M™ Versaflo™ M-300 Series Helmets** for respiratory eye, face and head protection:

**M-306** features a comfortable faceseal for construction, chemical applications and heavy industry. Fabric material: polyurethane coated polyamide.

**M-307** features a flame resistant faceseal for applications with hot particles. Fabric material: flame resistant polyester.



**3M™ Versaflo™ M-400 Series Helmets with shrouds** for respiratory, eye, face and head protection with additional neck and shoulder coverage:

**M-406** features a highly durable shroud for construction applications and heavy industry. Fabric material: Cordura® nylon

**M-407** features a flame resistant shroud for applications with hot particles. Fabric material: flame resistant Nomex®

# 3M™ Versaflo™ M-Series Faceshields and Helmets

## FEATURED ACCESSORIES

Accessories	Part No.	Description	Accessories	Ordering No.	Description
	M-928	Peel-Off Visor Covers		M-958	Chin strap
	M-935 M-936 M-937	Standard face seal (white) Comfort face seal Flame resistant face seal		M-972	Flame Resistant Headtop Cover
	M-447 M-448	High-durability shroud Flame-resistant shroud		M-976	Head, Neck and Shoulder Cover, for M-100 and M-300 headtops.
	*H31P3AF 300	3M™ Peltor™ Hearing Protector Helmet Attachment, for M-100 and M-300			

\* Contact 3M for full attenuation data including SLC80 value for the 3M Peltor H31 P3AF 300 Hearing Protector.

## RESPIRATORY PROTECTION STANDARDS - 3M AIR DELIVERY UNITS

3M Air Delivery Unit	Standard	M-100 RMPF	M-300 RMPF	M-400 RMPF **
TR-300	AS/NZS1716	50 (Particles)	50 (Particles)	50 (Particles)
Jupiter	AS/NZS1716	50 (Particles) 10 (Gas/Vapours)	50 (Particles) 10 (Gas/Vapours)	50 (Particles) 10 (Gas/Vapours)
Versaflo V Series	AS/NZS1716	100 (Particles) 100+ (Gas/Vapours)	100 (Particles) 100+ (Gas/Vapours)	100 (Particles) 100+ (Gas/Vapours)

\*\* Required Minimum Protection Factor

## IMPACT PROTECTION STANDARDS - VERSAFLO M-SERIES FACESHIELD & HELMETS

Versaflo M-Series Headtop	M-100	M-300	M-400
AS/NZS 1337.1 Personal eye protection - high impact	Yes	Yes	Yes
AS/NZS 1801 Occupational protective helmets	N/A	Yes	Yes

# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor<sup>TM</sup> Communications



3M E-A-R<sup>TM</sup> Peltor<sup>TM</sup> Hearing



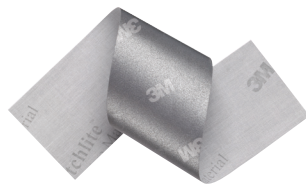
Eye Protection



Head & Face Protection



Speedglas<sup>TM</sup>



Scotchlite<sup>TM</sup>



Sorbents & Spill Management



Vending Solutions

3M Occupational Health & Environmental Safety Division  
3M™ Protective Coveralls



Built for protection  
Designed for  
comfort

**3M**



## CE Category III Coveralls

### 3M™ Protective Coverall 4515

#### Low cost hazardous dust protection

The 4515 is made from a breathable material and is ideal for a wide range of applications, particularly hazardous dust (e.g. asbestos).

- + CE Type 5 & 6 for hazardous dust and splash
- + Radioactive/nuclear particulate protection to EN 1073-2:2002
- + 2-way zipper for added convenience
- + Elasticated hood, cuffs, waist and ankles for a comfortable fit
- + Breathable fabric
- + Low-linting



### 3M™ Protective Coverall 4520

#### Protection with comfort

The 4520 is made from a 5-layered breathable and lightweight (43gsm) material, making it an extremely comfortable coverall to wear.

- + CE Type 5 & 6 for hazardous dust and splash
- + Radioactive/nuclear particulate protection to EN 1073-2:2002
- + Anti-static protection to EN 1149-5:2008
- + 2-way zipper with sealable tab on storm flap for added convenience and extra protection
- + 3-panel hood design for enhanced compatibility with complimentary PPE
- + Knitted cuffs with elasticated waist and ankles for increased comfort and freedom of movement
- + Breathable fabric
- + Low-linting



### 3M™ Protective Coverall 4530+

#### Breathable comfort with alcohol resistance

The 4530+ is made from a unique combination of breathable non-woven fabrics and specialist treatments including anti-static and a new alcohol and oil repellency, resulting in a higher level of protection, greater comfort and suitability for a wide range of applications.

- + CE Type 5 & 6 for hazardous dust and splash
- + Anti-static protection to EN 1149-5:2008
- + Treatment to improve repellency to alcohol and oil-based liquids
- + Radioactive/nuclear particulate protection to EN 1073-2:2002
- + 2-way zipper with fully resealable storm flap for added on-off convenience and extra protection
- + 3-panel hood design for enhanced compatibility with complimentary PPE
- + Knitted cuffs with elasticated waist and ankles for increased comfort and freedom of movement
- + Breathable fabric
- + Low-linting





### 3M™ Protective Coverall 4510

Splash and dust protection

The 4510 is constructed of high quality laminated microporous material and is designed to offer cost effective protection against hazardous dusts and light liquid chemical splashes.

- + CE Type 5 & 6 for hazardous dust and splash
- + Radioactive/nuclear particulate protection to EN 1073-2:2002
- + Anti-static protection to EN 1149-5:2008
- + Elasticated hood, waist, ankles and wrist for convenient safe wear and freedom of movement
- + Two-way zipper with storm flap for added convenience and extra protection
- + Ultra low-linting



### 3M™ Protective Coverall 4535

Dual protection and comfort

The 4535 provides a unique balance of comfort and protection. It combines the excellent chemical barrier and ultra low-linting properties of the white laminated material on the front with the breathability and comfort of the blue comfort panel material running down the back.

- + CE Type 5 & 6 for hazardous dust and splash
- + Anti-static to EN 1149-5:2008
- + Radioactive/nuclear particulate protection to EN 1073-2:2002
- + Large breathable panel for increased comfort
- + 2-way zipper with storm flap for added convenience and extra protection
- + Knitted cuffs with elasticated waist and ankles for increased comfort and freedom of movement
- + Low-linting



### 3M™ Protective Coverall 4540+

Enhanced protection with comfort built in

The 4540+ uses microporous material and as such, is soft and light, but maintains CE Type 5 and 6 protection. The blue panel in the back is made from a more breathable SMMMS material that helps increase air ventilation and reduce heat build-up resulting in a highly versatile coverall.

- + CE Type 5 & 6 for hazardous dust and splash
- + Anti-static to EN 1149-5:2008
- + Radioactive/nuclear particulate protection to EN 1073-2:2002
- + Breathable back panel for reduced heat stress
- + 3-panel hood design for enhanced compatibility with complimentary PPE
- + 2-way zipper with fully sealable storm flap for added convenience and extra protection
- + Knitted cuffs with elasticated waist and ankles for increased comfort and freedom of movement
- + Low-linting



### 3M™ Protective Coverall 4565

Extra protection with lightness

The 4565 offers excellent chemical and dust protection to CE Type 4, 5 and 6. As well as having taped seams, it uses a material designed to be softer and 20% lighter than previous 3M™ PE laminate materials but offering a heightened level of chemical protection.

- + CE Type 4 for jet spray
- + CE Type 5 & 6 for hazardous dust and splash
- + Anti-static protection to EN1149-5
- + Radioactive/nuclear particulate protection to EN 1073-2:2002
- + Biological/Infective agent protection to EN 14126 (see UIs)
- + 3-panel hood design for enhanced compatibility with complimentary PPE
- + 2-way zipper with fully sealable storm flap for added convenience and extra protection
- + Knitted cuffs with elasticated waist and ankles for increased comfort and freedom of movement
- + Ultra low-linting soft fabric
- + Adhesive chin flap
- + Supplied in vacuum packaging



# 3M™ Protective Coveralls



## 3M™ Protective Coverall 4570 (Available Quarter 1 - 2012) Advanced barrier against certain hazardous chemicals

The 4570 uses an advanced film technology to offer Type 3 levels of protection in both chemical hold out and mechanical strength giving the wearer confidence in their protection. This high performance suit includes welded and taped seams.

- + CE Type 3 & 4 for jet spray and liquid tight chemical protection
- + CE Type 5 & 6 for hazardous dust and splash
- + Anti-static protection to EN1149-5:2008
- + Radioactive/Nuclear particle protection to EN 1073-2:2002
- + Biological/Infective agent protection to EN 14126
- + Double front closing system with internal stormflaps for extra protection
- + Large zip for ease of use
- + Elasticated cuffs with thumb loops for secure fit during overhead work
- + Elasticated waist and ankles for increased comfort and freedom of movement
- + Adhesive chin flap
- + Ultra low-linting



## CE Simple Coveralls

### 3M™ Protective Coverall 4500 Breathable and light duty protection

The 4500 is general purpose and designed for light protection against non-hazardous liquids and dusts. It is strong and comfortable and is ideal for use in warehouses, general manufacturing, DIY, packaging or cleaning.

- + CE Category 1
- + Strong, durable, polypropylene fabric
- + Storm flap over zip
- + Elasticated hood, cuffs, ankles and waist

### Overshoe Covers

#### 3M™ Overshoe 442



- + Made of the same laminated material as the Type 5/6 coveralls (3M 4535)
- + Elastic at ankle

#### 3M™ Overshoe 402



- + General non-hazardous substance protection
- + Print on base to reduce risk of slipping
- + Elastic at ankle

### Overboot Covers

#### 3M™ Overboot Cover 450



Slip Resistant Sole

- + Elastic at the calf
- + Universal size with ties to help provide a good fit
- + Made of the same laminated material as the Type 5/6 coveralls (3M 4535)
- + Non-slip sole

### Head Protection

#### 3M™ Mob Cap 407



- + Hygiene protection prevents contamination from hair in the working environment.
- + Universal size

# Which Protection is right for you?

## Product Selector\*



	3M	4500	4510	4515	4520	4530+	4535	4540+	4565	4570
<b>Certification**</b>		CATEGORY 1	CATEGORY 3	CATEGORY 3	CATEGORY 3	CATEGORY 3	CATEGORY 3	CATEGORY 3	CATEGORY 3	CATEGORY 3
		N/A	 TYPE 6 EN 13034 TYPE 5 EN ISO 13982-1	 TYPE 6 EN 13034 TYPE 5 EN ISO 13982-1	 TYPE 6 EN 13034 TYPE 5 EN ISO 13982-1	 TYPE 6 EN 13034 TYPE 5 EN ISO 13982-1	 TYPE 6 EN 13034 TYPE 5 EN ISO 13982-1	 TYPE 6 EN 13034 TYPE 5 EN ISO 13982-1	 TYPE 6 EN 13034 TYPE 5 EN ISO 13982-1	 TYPE 6 EN 13034 TYPE 5 EN ISO 13982-1
<b>Material Weight</b>		45gsm	47gsm	50gsm	43gsm	47gsm	55gsm	49gsm	49gsm	92gsm
<b>Sizes</b>		M-3XL	M-3XL	M-3XL	M-3XL	M-3XL	M-2XL	M-3XL	M-3XL	M-3XL
<b>Colours</b>										
<b>Light-duty cleaning, warehousing, janitorial</b>		●		●						
<b>Asbestos Inspection, site preparation, insulation</b>			●	●	●	●	●	●	●	
<b>Asbestos removal</b>			●	●	●	●	●	●	●	
<b>Cement manufacturing, metal grinding &amp; polishing</b>			●	●	●	●	●	●	●	
<b>Light industrial cleaning, machine maintenance</b>			●	●	●	●	●	●	●	
<b>Pharmaceutical processing, handling toxic powders</b>			●		●	●	●	●	●	
<b>Painting &amp; coating, resins</b>			●			●	●	●	●	
<b>Cleanrooms</b>			●						●	
<b>Pesticide spraying</b>									●	●
<b>Chemical mixing and handling</b>									●	●
<b>Chemical spills, emergency response, decontamination, tank cleaning</b>										●

● Popular choice      ● Suitable for consideration

\*In all cases, a risk assessment should be carried out. Always read product user information. Use limitations and performance data should be considered to ascertain the protection required. If in doubt, contact a safety professional.  
 \*\*See user instructions or technical datasheets for full details.

# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor™ Communications



3M E-A-R™ Peltor™ Hearing



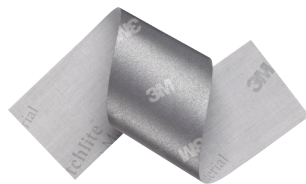
Eye Protection



Head & Face Protection



Speedglas™



Scotchlite™



Sorbents & Spill Management



Vending Solutions

3M Personal Safety Division  
High-Noise Communication Solutions



# Smart Solutions

Easy Commuincations

The power to protect your world.™



## Functions

Short description of functions and the meaning of symbols.



### Intrinsically - Safe

IS approved products developed for users who spend time in explosive atmospheres, such as the Oil and Gas industry.



### Built in communication radio

Hearing protectors with built in communication radio.



### Level Dependent Function

Each cup has a microphone that captures all sounds. The electronics inside analyse the information and process the sound before reproducing it to the ear. It provides effective protection against impulse noises like gunshots. At the same time, speech and weak signals can be amplified up to 10 times in comparison to conventional hearing protection.



### Two way communication

To communicate at a distance via communication radio, mobile or DECT-phone.



### Bluetooth™

Hearing protectors with built in Bluetooth™.



### Built in FM/AM Radio Receiver

Hearing protectors with built in FM/AM-radio receiver.



### Listen only function

To be able to listen to radio traffic, for example via a communication radio, mobile or DECT-phone.



### MP3

Connects to MP3 player and other audio devices

## Attenuation ratings

Short description of attenuation ratings and the meaning of symbols. (SLC<sub>80</sub> Sound Level Conversion)



**85 < 90dB**

**Corresponds to AS/NZS 1269.3:2005 Class 1  
SLC<sub>80</sub> 10 to 13dB**



**90 < 95dB**

**Corresponds to AS/NZS 1269.3:2005 Class 2  
SLC<sub>80</sub> 14 to 17dB**



**95 < 100dB**

**Corresponds to AS/NZS 1269.3:2005 Class 3  
SLC<sub>80</sub> 18 to 21dB**



**100 < 105dB**

**Corresponds to AS/NZS 1269.3:2005 Class 4  
SLC<sub>80</sub> 22 to 25dB**



**105 < 110dB**

**\*Corresponds to AS/NZS 1269.3:2005 Class 5  
SLC<sub>80</sub> 26dB or greater**



### Warning:

At exposures above 110dB you will need specialist advice on the selection of hearing protectors.

# 3M™ Peltor™ Communication Solutions

## Part Number Reference Guide

The following schedule is intended to provide a guide to the interpretation of part number sequence/s applied to the various Peltor Communication and hearing protection solutions.

- + Every number or letter represents a feature or characteristic of the Headset or Hearing Protector
- + There will be a cup size in the Code
- + There will always be a band configuration in the Code
- + Codes always start with the microphone
- + There could be part number sequences that end with a suffix which indicate a variant



Mic	* Type of Mic	Function	Headset Platform
MT1	Electret	Ambient noise Mic	Tactical XP
MT7	Dynamic	Boom Mic	Selective platforms
MT9	Dynamic	Throat Mic	Selective platforms
MT15	Dynamic	Ambient noise Mic	Protac/Comtac/Litecom
MT16	Dynamic	Ambient noise Mic	Sporttac
MT17	Dynamic	Ambient noise Mic	Comtac XP
MT32	Dynamic	Boom Mic	Non-attenuating
MT51	Electret	Boom Mic	Aviation
MT52	Dynamic	Boom Mic	Aviation
MT53	Electret	Boom Mic	All platforms
MT72	Dynamic	Boom Mic	Aviation (mainly)

### \* Electret versus Dynamic Microphone?

*Dynamic Microphones preferred in areas where relatively high ambient noise may be prevalent*

Letter	Band Style
A	Head band
B	Neck band
F	Foldable Head band
FB	Foldable Head band
P3x	Helmet Attach (x = E,G,K, etc dependent on type of Helmet)



Comms Platform	Description	Basic Function
Communications Headsets - General. Ground Mechanic	Non-,Medium, High Attenuation	2-way communication through RF or Bluetooth™ medium
Aviation	High attenuation, Fixed wing & Helicopter	Radio Communications and PA
Listen Only	Medium and High Attenuation	One way communication
Litecom	Level dependent with built-in 2-way radio Hearing Protector	2-way communication through Built-in radio or external input signal
Tactical	Level dependent Hearing Protector	Impulse noise protection with Radio Communications capability
Workstyle	Hearing protection with AM/FM radio	Impulse noise protection with AM/FM radio and external port for personal music players or mobile phones.

Suffix	Description of modification
-31	Direct lead Icom
-35	Direct Lead/angled plug Icom
-95	Direct Lead/angled plug Icom with screw
-36	Direct lead Kenwood
-21	Direct lead Motorola GP300/CP040
-32	Direct lead Motorola GP340/GP380
-96	Direct lead Motorola MTP850/MTH800
-28	Direct lead Mobile Phone/ DECT phone
-77	Flex Headset
-50	ATEX (Intrinsically Safe)
-GB	Ground Mechanic
-04 VI	Aviation Headset Dynamics Mic (Fixed Wing)
-01 VI	Aviation Headset Electret Mic (Fixed Wing)
MT51H79F-02	Aviation STD impedance (Helicopter)
MT52H79F-03	Aviation LOW impedance (Helicopter)
-91	Twin Cup Helicopter
-01	Low profile, Med Attenuation Listen Only
-02	3.5mm stereo connector, 230 ohm

Suffix	Description of modification
-03	2.5mm mono connector, 230 ohm
-07	6.3mm mono connector, 8 ohm
-41	Motorola GP344/GP338
-53	2.5mm mono connector, ATEX
-54	3.5mm stereo screw-in connector, ATEX
-478	SportTac
-38	J11 connector
-68	J11 Gentex Goose Neck Mic
-69	Bone Conduction Mic
WS5	Bluetooth™
-290	Australia/New Zealand labelled/packaged
-34	Mono Motorola
-08 SV	Standard Headset - Black
-47	Flex Headset, LEMO connector
-23	1/4" mono connector, 32 ohm
-38	J11 connector
-77	Flex Lead

# Selection Tool

## Headset Connectivity

### Direct Lead

Connect your headset direct to you two-way radio



### Flex Lead

Connect your headset via a flex cable to you two-way radio. Change of radio means a change of flex cable.



### J11 & PTT

Connect your headset via a push-to-talk adapter to your two-way radio



### Lite-Com

In-built two way radio. Can also program existing two-way radio to headsets



### WS

Features Bluetooth™ technology to connect to Bluetooth radios/phones. Can also use Peltor WS adapter for non-bluetooth devices.



## Additional Features

Level Dependent Mic



High Vis



Intrinsically Safe



Light Weight



AM/FM Radio



Listen Only





# Headset Solutions

With a carefully developed microphone and speaker system, 3M's Peltor Headsets offer excellent communication possibilities for very high noise environments. The headset cups provide excellent attenuation and comfort for long-term wearing. A wide range of models and features offer many possibilities for different applications.



## Peltor™ Non Attenuation Headset

This single or dual-sided non-noise attenuating lightweight 2-way communication headset is ideal for users working in non-hazardous noise conditions such as control bases or offices.

- Uses 3M™ Peltor™ technology in earcup design and electronics
- Offers clear, crisp 2-way communication
- Offers flexibility and convenience with lightweight headset design
- Works in conjunction with 2-way radios
- High comfort due to a broad head band of sprung stainless steel, which ensures even pressure
- Continuous height adjustment
- Load-relieving cord clip
- Equipped with Dynamic boom microphone
- Standard version with J11 connector (Nexus TP-120)

Listen Only	
Two Way Comms	✓
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	



MT32H01



MT32H02

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Single sided, J11	MT32H01	Head Band	200	N/A	N/A	Black
Dual sided, J11	MT32H02	Head Band	215	N/A	N/A	Black

See list of PTT adapters on page 43



## Peltor™ High Attenuation Standard Headset

With its carefully designed microphone/speaker system and excellent attenuation, the 3M™ Peltor™ Headset range offers unique acoustic performance providing outstanding communication in very high noise environments. Peltor's proven and durable designs ensure high comfort levels, allowing long term use under very tough conditions.

- High-attenuating shells with optimised acoustic design and excellent space for the ears for the best possible sound quality and comfort.
- Dynamic speech boom microphone with effective noise compensation for clear and reliable communication
- Quick positioning boom microphone for easy handling
- Soft, wide, foam and fluid-filled ear cushions.
- Individually sprung stainless steel head band provides an even and consistent distribution of pressure around the ears
- Beam-mounted earphones that provide minimal resonance and distortion, offering excellent sound reproduction even in high-noise environments
- Standard J11 connection (Nexus TP-120)
- Numerous configurations. Overhead, neckband and helmet-attached versions to meet most users' requirements.



MT7H79A

Listen Only

Two Way Comms



Level Dependent

Built in Comms

Bluetooth

AM/FM

Intrinsically Safe

MP3

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
J11, dynamic mic, 230 ohm	MT7H79A	Head Band	383	5	31dB	Black
J11, dynamic mic, 230 ohm	MT7H79B	Neck Band	367	5	26dB	Black
J11, dynamic mic, 230 ohm	MT7H79P3E	Helmet attached	406	5	29dB	Black

See list of PTT adapters on page 43



# Peltor™ High Attenuation Flex Lead Headset

The 3M™ Peltor™ Flex Headset range offers unique acoustic performance providing outstanding communication in very high noise environments. A standard chassis jack for connecting Flex cords completes the headset.

- High-attenuating shells with optimised acoustic design and excellent space for the ears for the best possible sound quality and comfort.
- Electret speech boom microphone with effective noise compensation for clear and reliable communication
- Quick positioning boom microphone for easy handling
- Soft, wide, foam and fluid-filled ear cushions.
- Individually sprung stainless steel head band provides an even and consistent distribution of pressure around the ears
- Beam-mounted earphones that provide minimal resonance and distortion, offering excellent sound reproduction even in high-noise environments
- PTT button on the cup
- Numerous configurations. Overhead, neckband and helmet-attached versions to meet most users' requirements.



MT53H79A-21

- Listen Only
- Two Way Comms ✓
- Level Dependent
- Built in Comms
- Bluetooth
- AM/FM
- Intrinsically Safe
- MP3

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Flex headset	MT53H79A-77	Head Band	383	5	31dB	Black
Flex headset	MT53H79B-77	Neck Band	367	5	26dB	Black
Flex headset	MT53H79P3E-77	Helmet Attached	406	5	29dB	Black

See list of flex cables on page 43



## Peltor™ WS™ XP Bluetooth™ High Attenuation Headset

This Peltor wireless solution uses the latest Bluetooth technology to make communication in noisy environments easier and more effective. You can always be available – fast, easily and wirelessly. Gone are the problems of the snagging cord. You can use your telephone or communication radio even when they're not in sight. Peltor Wireless Solutions™ isn't just about headsets, it also includes adaptors for communication headsets that don't have built-in Bluetooth®.

- Wireless connection to phones or communication radios using Bluetooth™ technology
- The headset and telephone can be up to 10 metres apart and out of visible range without losing contact
- Volume and answer button on the shell
- High-attenuating shells with optimised acoustic design, spacial ear cups, offer great sound quality and comfort
- Electret speech microphone with effective noise compensation for clear and reliable communication
- Quick Positioning boom microphone for easy handling
- Soft, wide, foam and fluid-filled ear cushions. Individually sprung stainless steel head band provides an even and consistent distribution of pressure around the ears
- Beam-mounted earphones that provide minimal resonance and distortion, offers excellent sound reproduction even in high-noise environments



MT53H7AWS5

### Listen Only

Two Way Comms ✓

Level Dependent

Built in Comms

Bluetooth ✓

AM/FM

Intrinsically Safe

MP3

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
WS headset-Bluetooth™	MT53H7AWS5	Head Band	398	5	31dB	Black
WS headset-Bluetooth™	MT53H7BWS5	Neck Band	388	5	29dB	Black
WS headset-Bluetooth™	MT53H7P3EWS5	Helmet Attached	450	5	31dB	Black

See list of Bluetooth™ adaptors on Page 44



# Peltor™ Intrinsically Safe High Attenuation Headset

3M™ Peltor™ line of IS products are designed for extreme environments. Developed in close collaboration with demanding users, these products have undergone rigorous testing in harsh environments. The results prove that we can meet the demands and make communication easier and more reliable despite external factors.

- Intrinsically safe headsets according to IECEx class Ex ib IIC T4
- High-attenuating shells with optimised acoustic design, spacial ear cups, offer great sound quality and comfort
- Dynamic speech microphone with effective noise compensation for clear and reliable communication
- Quick positioning boom microphone for easy handling
- Soft, wide, foam and fluid-filled ear cushions. Individually sprung stainless steel head band provides an even and consistent distribution of pressure around the ears
- Beam-mounted earphones that provide minimal resonance and distortion for excellent sound reproduction even in very high-noise environments
- Standard J11 Connector (Nexus TP-120)



Listen Only	
Two Way Comms	✓
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	✓
MP3	

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
ATEX, 230 ohm, J11, dyn, Mic	MT7H79F-50	Folding Head Band	383	5	31dB	
ATEX, 230 ohm, J11, dyn, Mic	MT7H79B-50	Neck Band	367	5	26dB	
ATEX, 230 ohm, J11, dyn, Mic	MT7H79P3E-50	Helmet Attached	406	5	29dB	

See list of intrinsically safe PTT adapters on page 44





## Peltor™ Twin Cup High Attenuation Headset

3M™ Peltor™ twin cup high attenuation headset represent the ultimate in earmuff technology by combining extreme noise protection with exceptional wearer comfort. These communication earmuffs feature double-shell technology to provide superior hearing protection in extreme noise conditions.

- Extra high-attenuating twin shells with optimised acoustic design, spacial ear cups offer great sound quality and comfort
- Dynamic speech microphone with effective noise compensation for clear and reliable communication
- Quick positioning boom microphone for easy handling
- Soft, wide, foam and fluid-filled ear cushions. Individually sprung stainless steel head band provides an even and consistent distribution of pressure around the ears
- High visibility cups (High vis option)
- IECEx Ex ib IIC T4 (ATEX option)



MT7H540F GB

Listen Only

Two Way Comms



Level Dependent

Built in Comms

Bluetooth

AM/FM

Intrinsically Safe\*



MP3

\* Applies to ATEX version only



MT72H540F-50

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
J11, dyn, mic, 230 ohm	MT7H540F GB	Folding Head Band	440	5	33dB	
J11, dyn, mic, 230 ohm	MT7H540P3E GB	Helmet Attached	440	5	33dB	
J11, dyn, mic, 230 ohm	MT72H540F-50	Folding Head Band	440	5	33dB	
J11, dyn, mic, 230 ohm	MT72H540P3E-50	Helmet Attached	440	5	33dB	

See list of ATEX and High Vis Ground Mechanic adapters on page 44



# Aviation Solutions

Whether the ground is 32,000 feet below you or you push an A380 with a weight of 560 tonnes, you can't afford to have anything go wrong.

Perfect communication, convenient design, low weight and maximum comfort are essential requirements of a headset in a noisy aviation environment, in the air and on the ground.



# Peltor™ WS™ XP & WS™ ProTac™ XP Ground Mechanic Headsets

The Peltor Ground Mechanic WS XP Headset and ProTac XP Headset are hearing protectors that feature Bluetooth technology. The Bluetooth connection between headset and adapter ensures an efficient and safe push back. The headset provides effective noise attenuation when sound level is high.

- Wireless connection to WS Ground Mechanic adapter using Bluetooth™ technology
- DSP (Digital Signal Processor)
- Supports Bluetooth A2DP profile for streaming high quality stereo sound
- VOX (Voice Operated Transmit)
- Cockpit notification and connection control
- The headset and adapter can be up to 10 metres apart and out of visible range without losing contact
- Volume and PTT (push to talk) buttons are on the shell
- High-attenuating shells with optimised acoustic design, spacial ear cups offer great sound quality and comfort
- Dynamic speech microphone with effective noise compensation for clear and reliable communication
- Socket for an External PTT
- Wireless connection to WS5 Ground Mechanic adapter using Bluetooth™ technology "FL6007-WS5 GB".
- WS ProTac XP includes Level dependent function in stereo that lets you hear ambient sound: conversation, machine sounds and warning signals



MT7H7AWS5-01 GB



MT15H7AWS5-01 GB



FL5602



FL6007-WS5 GB

### Listen Only

Two Way Comms	✓
Level Dependent*	✓
Built in Comms	
Bluetooth	✓
AM/FM	
Intrinsically Safe	
MP3	

\* Level dependent only applies to WS Protac XP

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
WS XP	MT7H7AWS5-01 GB	Head Band	345	5	30dB	
WS ProTac XP	MT15H7AWS5-01 GB	Head Band	345	5	30dB	
Ground Mechanic, WS Adapter	FL6007-WS5 GB	N/A	200	N/A	N/A	
External PTT	FL602	N/A	150	N/A	N/A	



## Peltor™ High Attenuation Ground Mechanic Headset

3M™ Peltor™ Ground Mechanic headset range provides fine tuned attenuation level for different noise environments. The high visibility headset range offers in addition to the excellent attenuation, unique acoustic performance providing outstanding communication in very high noise environments.

- Special built-in amplifier headset for communication between ground staff and aircraft cockpit
- High attenuating cups with optimised acoustic design, special ear cups offer great sound quality and comfort
- Dynamic differential microphone with excellent ambient noise compensation and a built-in microphone amplifier
- Quick Positioning boom microphone for easy handling
- Soft, wide, foam and fluid-filled ear cushions. Individually sprung stainless steel head band provides an even and consistent distribution of pressure around the ears
- Standard J11 connection (Nexus TP-120)
- Beam-mounted earphones that provide minimal resonance and distortion for excellent sound reproduction even in very high noise environments



MT7H79F-01 GB



MT53H540F-01 GB

- Listen Only
- Two Way Comms ✓
- Level Dependent
- Built in Comms
- Bluetooth
- AM/FM
- Intrinsically Safe
- MP3

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Ground Mechanic, dyn,mic	MT7H79F-01 GB	Foldable Head Band	383	5	31dB	
Ground Mechanic, electret,mic	MT53H540F-01 GB	Foldable Head Band	383	5	33dB	

See list of High Vis Ground Mechanic adapters on page 44



## Peltor™ Fixed Wing Aviation Headsets

The Aviation 8003 headset for fixed winged aircraft has an ambient-noise compensated dynamic differential microphone, specially designed for aviation intercom systems. The Aviation 8006 headset for fixed winged aircraft has an ambient-noise compensated electret differential microphone, specially designed for aviation intercom systems

### Aviation 8003

- The microphone amplifier can be adjusted for output signals in the range of 300-600 mV
- The frequency range is adjusted for good speech recognition
- The straight polyurethane cable with moulded connectors has a stereo/mono switch in the branching box
- The earphones have a 1/4" stereo connector and the microphone has a PJ068 connector.

### Aviation 8006

- The microphone amplifier can be adjusted for output signals in the range of 300-600 mV
- The frequency range is adjusted for good speech recognition
- The earphones have a broad frequency range for good sound reproduction
- The straight polyurethane cable with moulded connectors has a stereo/mono switch in the branching box
- The earphones have a 1/4" stereo connector and the microphone has a PJ068 connector

Listen Only

Two Way Comms



Level Dependent

Built in Comms

Bluetooth

AM/FM

Intrinsically Safe

MP3



MT52H79F-04 VI



MT51H79F-01 VI

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Aviation 8003, CE dyn,mic	MT52H79F-04VI	Head Band	370	5	31dB	<input type="text"/>
Aviation 8006, CE elec,mic	MT51H79F-01 VI	Head Band	360	5	31dB	<input type="text"/>



# Peltor™ Helicopter 8103 & 8106 Headsets

The Aviation 8103 helicopter headset has an ambient-noise compensated dynamic differential microphone, specially designed for aviation intercom systems. The Aviation 8106 helicopter headset has an ambient-noise compensated electret differential microphone.

## Aviation 8103

- The microphone amplifier is designed for intercom systems with 5 Ohm impedance
- The frequency range is adjusted for good speech recognition
- The earphones have a limited frequency range, to give the best possible speech recognition in the ambient noise of a helicopter
- The spiral polyurethane cable has a moulded NATO-standard connector equivalent to the Nexus TP-120

## Aviation 8106

- The earphones have a limited frequency range, to ensure the best possible speech recognition in the ambient noise of a helicopter
- Peltor™ two-point suspension of the shells on a broad head band ensures total comfort and consistent noise attenuation
- The spiral polyurethane cable has a moulded NATO-standard connector equivalent to the Nexus TP-120



MT52H79F-03



MT51H79F-02

Listen Only	
Two Way Comms	✓
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Aviation 8103 , CE low Imp dyn,mic	MT52H79F-03	Head Band	360	5	31dB	Black
Aviation 8106 , CE std Imp electret ,mic	MT51H79F-02	Head Band	370	5	31dB	Black



# Listen Only Solutions

3M™ Peltor™ Listen Only Headsets for connection to communication radios, pocket receivers, CD players and more. The proven and durable designs ensure high comfort levels, allowing long-term use under very tough conditions.



# Peltor™ High Attenuation Listen Only Headset

With its excellent attenuation, the 3M™ Peltor™ Listen Only range offers unique acoustic performance providing outstanding communication in very high noise environments. 3M Peltor's proven and durable designs ensure high comfort levels, allowing long term use under very tough conditions

- Available in Mono, or in Stereo with a volume level limiter equivalent to 82 dB(A) sound level
- High-attenuating shells with optimised acoustic design, spacial earcups offer great sound quality and comfort
- Soft, wide, foam and fluid-filled ear cushions. Individually sprung stainless steel head band provides an even and consistent distribution of pressure around the ears.
- Beam-mounted earphones that provides minimal resonance and distortion for excellent sound reproduction even in very high-noise environments
- Available with different connectors



HTB79A

Listen Only	✓
Two Way Comms	
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
¼" Stereo Connector, 230 ohm	HTB79A	Head Band	290	5	31dB	Black
¼" Stereo Connector, 230 ohm	HTB79F	Foldable Head Band	275	5	31dB	Black
¼" Stereo Connector, 230 ohm	HTB79P3E	Helmet Attached	320	5	29dB	Black
3.5mm Stereo Connector, 230 ohm	HTB79A-02	Head Band	290	5	31dB	Black
3.5mm Mono Connector, 230 ohm	HTM79A	Head Band	290	5	31dB	Black
3.5mm Mono Connector, 230 ohm	HTM79B	Neck Band	275	5	26dB	Black
3.5mm Mono Connector, 230 ohm	HTM79P3E	Helmet Attached	320	5	29dB	Black
2.5mm Mono Connector, 230 ohm	HTM79A-03	Head Band	290	5	31dB	Black
2.5mm Mono Connector, 230 ohm	HTM79B-03	Neck Band	275	5	26dB	Black
2.5mm Mono Connector, 230 ohm	HTM79P3E-03	Helmet Attached	320	5	29dB	Black
3.5mm Mono Connector, 32 ohm	HTM79A-21	Head Band	290	5	31dB	Black
¼" Mono Connector, 32 ohm	HTM79A-23	Head Band	290	5	31dB	Black
6.3mm Mono Connector, 8 ohm	HTM79B-07	Neck Band	275	5	26dB	Black
Mono Motorola Connector, 230 ohm	HTM79P3E-34	Helmet Attached	320	5	29dB	Black





## Peltor™ Intrinsically Safe Listen Only Headset

3M™ Peltor™ Blue-Line™ is a series of EX products designed for extreme environments. Developed in close collaboration with demanding users, these products have undergone rigorous testing in harsh environments

- IECEx-approved headsets according to IECEx class ib IIC T4
- High-attenuating shells with optimised acoustic design, spacial ear cups offer great sound quality and comfort
- Soft, wide, foam and fluid-filled ear cushions. Individually sprung stainless steel head band provides an even and consistent distribution of pressure around the ears
- Beam-mounted earphones that provide minimal resonance and distortion for excellent sound reproduction even in very high-noise environments



HTM79F-50

Listen Only	✓
Two Way Comms	
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	✓
MP3	

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
3.5mm Mono Connector, ATEX	HTM79F-50	Foldable Head Band	310	5	31dB	
3.5mm Mono Connector, ATEX	HTM79P3E-50	Helmet Attached	320	5	29dB	
2.5mm Mono Connector, ATEX	HTM79P3E-53	Helmet Attached	320	5	29dB	
3.5mm Stereo Screw-In Connector, ATEX	HTM79P3E-54	Helmet Attached	320	5	29dB	



# Light Weight Solutions

3M™ Peltor™ Light Weight solutions are designed for users who must have clear reception of incoming transmissions.

Compared to regular earmuffs, these products offer a more neat and discreet solution. We have developed a flexible portfolio to be used in many applications, where this solution is valuable and needed.



## Peltor™ ORA TAC In-Ear Tactical Communications

The 3M™ Peltor™ ORA TAC is a dual-sided in-ear tactical communications headset. The ORA TAC headset is lightweight, compact and provides hearing protection with comfortable, ambient listening. It is compatible with other PPE such as full face respirators.

- Delivers omni-directional reception with lightweight, compact headset
- No earcups reduce weight & heat
- Quick radio connect/disconnect
- Moisture- resistant PTT
- Fits with most respirators, eye wear, face masks, helmets and hard hats
- Protects users from impulse noises and in high-noise environments
- Offers direct connection to a variety of 2-way communications radios
- Provides clear communication with tactical features for more natural sound

Listen Only

Two Way Comms



Level Dependent



Built in Comms

Bluetooth

AM/FM

Intrinsically Safe

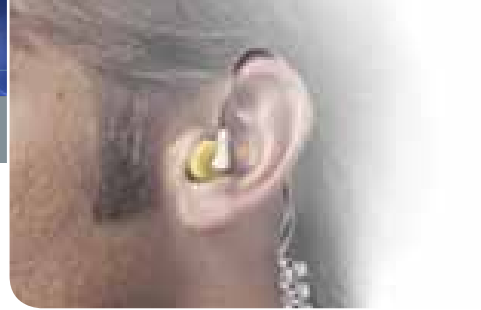
MP3



ORA-BASE-EU

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Oratac Base Unit	ORA-BASE-EU	Base Unit	245	N/A	N/A	Black
Skull Screw™, Replacement Tips	370-1019-10	Tips	N/A	4	22dB	Black
Classic™, Replacement Tips	420-297-50	Tips	N/A	4	23dB	Yellow
Ultrafit™ Replacement Tips	PELTIP4-01	Tips	N/A	1	11dB	Black

See list of Flex cables on page 43



## Peltor™ HearPlug™ Communication Earplugs

Compact, versatile and easy to use, this listen-only earpiece kit for two-way radios allows for clear reception in high-noise environments.

- Ideal where earmuffs cannot be worn i.e. under helmets or hoods
- Listen-only earpiece with 3.5 or 2.5-mm mono plug
- Disposable and reusable communication earpieces included
- Lets you connect to lapel microphones & audio devices



HTM06-01

Listen Only	✓
Two Way Comms	
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
HearPlug™, 3.5mm mono plug	HTM06-01	Base Unit	21	N/A	N/A	Black
HearPlug™, 2.5mm mono plug	HTM07-01	Base Unit	21	N/A	N/A	Black
E-A-R™ Ultrafit™, Reusable plug	Peltip1	N/A	N/A	1	12dB	Yellow
E-A-R™ Classic™, Disposable plug	Peltip2	N/A	N/A	4	25dB	Yellow



## Peltor™ Throat Microphone Kit

The 3M™ Peltor™ throat microphone and earpiece combination is specifically designed for situations and environments where boom microphones are ineffective or can't be used.

- Dynamic throat microphone
- High quality in-ear speakers with noise attenuating plugs
- Plugs are replaceable for hygienic reasons
- Ability to be used where boom microphones are ineffective or can't be used
- Picks up vibrations from user's voice box for excellent voice recognition
- Allows user to monitor all radio transmissions clearly with adjustable earpiece
- Offers stretchable strap with adjustments for different neck sizes
- Adapts to any portable radio with Push-to-Talk (PTT) adaptors



MT90H044

Listen Only

Two Way Comms



Level Dependent

Built in Comms

Bluetooth

AM/FM

Intrinsically Safe

MP3

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Peltor™, Throat Mic	MT90H044	Base Unit	110	N/A	N/A	Black
E-A-R™ Ultrafit™, Reusable plug	Peltip1	N/A	N/A	1	12dB	Yellow
E-A-R™ Classic™, Disposable plug	Peltip2	N/A	N/A	4	25dB	Yellow

See list of PTT adaptors on page 43



## Peltor™ Behind the Neck Light Weight Headset

The 3M™ Peltor™ behind the neck light weight headset is a single sided non-noise attenuating 2-way communication headset.

- Non attenuating light weight headset
- Single side speaker
- Noise compensated microphone
- J11 standard connection
- Compatible with Peltor PTT adapters and Dect Com



MT701H03

Listen Only	
Two Way Comms	✓
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Peltor™, Light Weight System	MT701H03	Base Unit	85	N/A	N/A	Black

See list of PTT adapters on page 43



# Lite-Com Solutions

The 3M™ Peltor™ Lite-Com series has a built-in two-way radio that opens up a new world with endless communication possibilities. Don't let noisy surroundings prevent you from working effectively. The Peltor Lite-Com Series helps you stay connected while at all times protecting your hearing.

It doesn't matter whether you work in a small team or a large group. When everyone is linked by two-way radio you can do the right tasks at the right time. You can choose already programmed frequencies or program your own frequencies.



## Peltor™ Lite-Com™ Plus Headsets

The 3M™ Peltor™ Lite-Com™ Plus boasts the same great features as the standard Lite-Com (hands-free communication up to 1 km), with an improved user interface and digital speech recognition. The Lite-Com Plus allows users to be better connected with their immediate environment, hearing ambient sounds such as conversation and warning signals while still maintaining clear two-way communication over long distances.

- Designed for people who work in teams or groups, where communication is essential
- 69 two way radio channels on the LPD 433 MHz band
- 121 sub channels
- Built-in active-sound function lets you hear ambient sounds; warning signals, machine sounds, conversation, etc. Sudden impulse noise at harmful levels are immediately attenuated
- Electronic voice guided menu system
- Separate PTT (push to talk) button for the auxiliary input, where a mobile phone, radio, or other audio source can be connected
- Squelch, VOX and audio input adjustment lets you configure the earmuffs to your personal choice. These settings can then be saved in the pre set buttons
- Unused, Lite-Com Plus switches off automatically to conserve batteries
- Rechargeable lithium-ion battery with 20 hours operating time
- Battery status indication



MT7H7A4310-AZ

Listen Only	
Two Way Comms	✓
Level Dependent	✓
Built in Comms	✓
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	✓

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
LPD 433 MHz	MT7H7A4310-AZ	Head Band	465	5	31dB	Black
LPD 433 MHz	MT7H7B4310-AZ	Neck Band	452	5	30dB	Black
LPD 433 MHz	MT7H7P3E4310-AZ	Helmet Attached	497	5	27dB	Black

See list of Lite-Com cables on page 44





## Peltor™ Intrinsically Safe Lite-Com™ Pro II Headsets

Peltor Lite-Com Pro II is a communication headset with high attenuation hearing protection and a short range built-in communication radio. The communication radio is designed for either stand alone or integration into industrial or other professional communication systems. It's an intrinsically safe UHF radio headset that's frequency programmable, making it ideal for manufacturing, oil and gas environments, as well as assembly line work.

- Has a built-in active-volume function that lets you hear ambient sound: conversation, machine sounds and warning signals
- Built-in VOX for handsfree operation
- Sudden impulse noises at harmful levels are immediately attenuated
- An electronic voice tells you what settings you are adjusting, so you do not have to take off the headset to check
- IECEx class  
 I M1 Ex ia I Ma  
 II 1G Ex ia IIC T4 -20°C≤Ta≤+50°C Ga  
 II 1D Ex ia IIC T130°C Da

### Listen Only

Two Way Comms	✓
Level Dependent	✓
Built in Comms	✓
Bluetooth	
AM/FM	
Intrinsically Safe	✓
MP3	✓



Product available Q1 2015

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Programmable 450-520 MHz	TBA	Head Band	436	TBA	TBA	
Programmable 450-520 MHz	TBA	Neck Band	521	TBA	TBA	
Programmable 450-520 MHz	TBA	Helmet Attached	456	TBA	TBA	



# Tactical Solutions

3M™ Peltor™ Tactical headsets consist of level dependent solutions that are invaluable tools for people who are subjected to impulse noises. The active-volume function lets you hear ambient noises, such as conversations, machine sounds, warning signals etc. Soft sounds are amplified, so you hear them even better than you would without hearing protectors.

These products are well-suited and often used by the military, hunters and shooters as well as industrial users.



## Peltor™ SportTac™ Headset



SportTac™ earmuffs are developed specifically for hunting and sports shooting. The smooth, level dependent function eliminates abrupt sound cut-off. They protect against harmful impulse noises while letting in, and even amplifying, ambient sounds. Interchangeable shells make it easy to change colour.

- Developed specifically for hunting and sport shooting
- Smooth level dependent function, which eliminates abrupt sound cut-off
- Interchangeable shells makes it easy to change colour
- Equipped with automatic shut-off function
- Collapsible design for easy storage
- Input jack, allows you to connect to selected 2-way radios or other electronic audio devices
- Angled speakers for better direction perception
- Electronics on the outside protected from sweat
- Water resistant exterior
- Amplifies ambient sounds up to 15dB
- Battery life 600 hr (AAA Batteries 1.5V)
- Slim compact shells design for optimal freedom of movement



MT16H210F-478-GN

Listen Only
Two Way Comms
Level Dependent ✓
Built in Comms
Bluetooth
AM/FM
Intrinsically Safe
MP3

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Orange/Green Shells	MT16H210F-478-GN	Foldable Head Band	318	4	24dB	
Black/Red Shells	MT16H210F-478-RD	Foldable Head Band	318	4	24dB	



# Peltor™ ProTac™ II & Tactical Pro™ Headsets

With the ProTac II, you are not shut off from the environment, which can be both dangerous and inconvenient. The level dependent function lets you hear ambient sound: conversation, machine sounds and warning signals. The control buttons are easily accessible and logically positioned, making it easy to adjust ambient noise.

- Improves communication and safety
- Level dependent function in stereo that lets you hear ambient sound: conversation, machine sounds and warning signals
- Plenty of space for the ear
- Last setting is stored when switched off
- Headset option with guide-mounted microphone
- Low battery warning signal
- Automatic shut-off after two hours if no function is used
- Battery life is approximately 1000 hours (AA Batteries). Warning signal when power is low, before shut-off
- Audio input jack for external radio
- TACTICAL PRO comes with Dynamic boom mic & J11 input jack



MT15H7A2 SV

Listen Only	
Two Way Comms*	✓
Level Dependent	✓
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	

\* Two way comms only applies to Tactical Pro

## ProTac

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Standard Headset	MT15H7F-SV	Foldable Head Band	345	5	30dB	Black
Standard Headset	MT15H7A2 -SV	Head Band	345	5	30dB	Black
Standard Headset	MT15H7B2-SV	Neckband	306	5	29dB	Black
Standard Headset	MT15H7P3E-SV	Helmet Attached	370	5	29dB	Black

## Tactical Pro

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Headset with J11 & Mic	MT15H7A-07-370-SV	Head Band	350	5	30dB	Black
Headset with J11 & Mic	MT15H7B-07-370-SV	Neck Band	350	5	30dB	Black
Headset with J11 & Mic	MT15H7P3E-07-370-SV	Helmet Attached	375	5	30dB	Black



## Peltor™ WS ProTac™ XP Headset

The Peltor™ WS™ ProTac XP is an active-hearing hearing protector that features Bluetooth® technology.

The Bluetooth function enables work with both hands free while taking calls via DECT- or mobile phones. The ambient listening function lets the user hear surrounding noise and converse with colleagues. The headset provides effective noise attenuation when sound level is high.

- DSP (Digital Signal Processor)
- Level dependent function in stereo that lets you hear ambient sound: conversation, machine sounds and warning signals
- Supports Bluetooth A2DP profile for streaming high quality stereo sound
- Advanced VOX (Voice Operated Transmit)
- Available in Flex version



MT15H7AWS5

Listen Only	
Two Way Comms	✓
Level Dependent	✓
Built in Comms	
Bluetooth	✓
AM/FM	
Intrinsically Safe	
MP3	

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Standard Headset	MT15H7AWS5	Head Band	345	5	30dB	Black
Standard Headset	MT15H7BWS5	Neck Band	306	5	29dB	Black
Standard Headset	MT15H7P3EWS5	Helmet Attached	370	5	29dB	Black
Flex Headset	MT15H7AWS5-77	Head Band	345	5	30dB	Black
Flex Headset	MT15H7P3EWS5-77	Helmet Attached	370	5	29dB	Black

See list of flex cables on page 43



# Peltor™ Tactical™ XP Standard, Intrinsically Safe & High Vis Headsets

The 3M Peltor Tactical XP is equipped with many functions that further improve your opportunities to hear what you want while remaining protected from harmful noise. Each function and its settings are indicated by a voice message. Functions such as equalizer, balance and a high amplification make this type of product one of the most advanced on the market.

- Level dependent function that lets you hear ambient sound: conversation, machine sounds and warning signals, etc.
- Electronic voice guided menu system
- Equipped with the following functions: volume for the level dependent function, balance, adjustable release time, equalizer, volume for external input and external input mode
- Leather covered head band for durability and comfort.
- Last setting is stored when switched off
- Automatic shut-off after two hours if no function is used
- ATEX and Hi Vis Option available



MT1H7F2



MT1H7F2-07-50



MT1H7F2-07-01 GB

#### Listen Only

Two Way Comms	✓
Level Dependent	✓
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe*	✓
MP3	✓

\* Intrinsically Safe only applies to ATEX headsets

#### Standard Tactical XP

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Standard Headset	MT1H7F2	Folding Head Band	390	5	28dB	Black
Standard Headset	MT1H7B2	Neck Band	375	5	28dB	Black
Standard Headset	MT1H7P3E2	Helmet Attached	425	5	30dB	Black
J11 Headset	MT1H7F2-07	Folding Head Band	390	5	28dB	Blue
J11 Headset	MT1H7B2-07	Neck Band	375	5	28dB	Blue
J11 Headset	MT1H7P3E2-07	Helmet Attached	425	5	30dB	Blue
Flex Headset	MT1H7F2-77	Folding Head Band	400	5	28dB	Black
Flex Headset	MT1H7B2-77	Neck Band	350	5	28dB	Black
Flex Headset	MT1H7P3E2-77	Helmet Attached	390	5	30dB	Black

#### Atex Tactical XP

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Atex Standard Headset	MT1H7F2-07-50	Folding Head Band	390	5	28dB	Blue
Atex Standard Headset	MT1H7B2-07-50	Neck Band	375	5	28dB	Blue
Atex Standard Headset	MT1H7P3E2-07-50	Helmet Attached	425	5	30dB	Blue
Atex J11 Headset	MT1H7F2-51	Folding Head Band	390	5	28dB	Blue
Atex J11 Headset	MT1H7B2-51	Neck Band	375	5	28dB	Blue
Atex J11 Headset	MT1H7P3E2-51	Helmet Attached	425	5	30dB	Blue

#### High Vis Tactical XP

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
HV J11 Headset	MT1H7F2-01 GB	Folding Head Band	400	5	28dB	High Vis Green



## Peltor™ ComTac™ XP Headsets

Clear and reliable communications are critical to success in most military operations. To be able to communicate while being protected from harmful noise levels is a vital necessity, both for exercises and actual combat situations.

In many military operations, noise levels are so high that they can cause immediate and permanent damage to the hearing if protection is not worn. At the same time, communication is of prime and vital importance. Orders and information must be heard and understood, both via radio and directly person to person.

- Thin, high-attenuating cups
- Tested to IP68 and military specifications
- Watertight microphones
- Level dependant function with new setting options:
- Plug mode- increases the volume when wearing the headset with earplugs in extremely noisy environments
- Balance Mode- adjusts the balance between left and right earphones
- Equalizer Mode- adjusts and cuts out high or low frequencies
- Release Time Mode- Adjusts the length of time before the Tactical function is reactivated
- High quality head band made from stainless steel and leather



MT17H68FB-02

### Listen Only

Two Way Comms	✓
Level Dependent	✓
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	✓

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Standard Headset	MT17H682FB-02	Folding Head Band	285	5	27dB	Green
J11 Headset	MT17H682FB-38	Folding Head Band	335	5	27dB	Green
Standard Headset	MT17H682FB-08-SV	Folding Head Band	285	5	27dB	Black
J11 Headset	MT17H682FB-38-SV	Folding Head Band	285	5	27dB	Black
Bone Conduction Headset	MT17H682FB-68	Folding Head Band	335	5	27dB	Green

Multiple military configurations available. Please contact 3M for full line military catalogue.

**PELTOR™**



# Workstyle Solutions

3M's Peltor™ Workstyle™ headsets effectively protect your hearing while allowing you to listen to FM-radio.





## Peltor™ Worktunes™ Digital Headset

3M™ Peltor™ Worktunes™ Digital headset has an advanced radio as standard. The sound is reproduced in stereo with a bass that does the music justice. The short, flexible antenna provides excellent reception with no annoying interference, even in harsh conditions. The sound level of the radio or the external input never exceeds 82 dB(A).

- Hands-free Voice Assist feature guides you to your favorite stations and helps you program new ones
- Voice Assist tells you what radio station you are on without having to remove WorkTunes™ from your ears
- Voice Assist low-battery indicator
- Easy-to-use auto scanning to quickly find and save radio stations
- Bass Boost option
- Save up to 50 preset stations
- Designed for easy operation
- Automatic shut off helps conserve your batteries
- Recessed MP3 and two-way radio jack
- Output sound level limited to 82dB to protect your hearing



90541-80025AU

Listen Only	
Two Way Comms	
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	✓
Intrinsically Safe	
MP3	✓

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Standard Headset	90541-80025AU	Head Band	348	5	26dB	



## Peltor™ Worktunes™ Plus Headset

The 3M™ Peltor™ Worktunes™ Plus is a hearing protector with built in electronic functionality to improve safety and increase motivation for wearers in noisy conditions. It has a built in AM/FM radio and a level dependent function for ambient listening.

Warning signals, approaching vehicles and other dangers that may occur can still be heard thanks to the level dependent function. The external port enables connection to external sources, for example a mobile phone or an MP3-player.

- The level dependent function allows you to hear sounds, warning signals, machinery and conversations. Sudden impulse noise at harmful levels are immediately attenuated
- The AM/FM radio provides hearing protection with music while you work
- Easy-to-handle volume control knobs for radio and level dependent function
- A short, flexible antenna provides excellent reception with no annoying interference
- Switches automatically from stereo to mono for the best reception in the event of a weak signal
- AM/FM switch to choose your radio reception



M2RX7A 290

Listen Only	
Two Way Comms	
Level Dependent	✓
Built in Comms	
Bluetooth	
AM/FM	✓
Intrinsically Safe	
MP3	✓

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Standard Headset	M2RX7A	Head Band	345	5	28dB	



# Intercom Solutions

3M™ Peltor™ Intercom Systems, are designed to minimise interfering noise and maximise audibility. These systems enable users to have reliable communication in full duplex.



## Peltor™ DECT-Com II™ System

3M Peltor DECT-Com II is a wireless duplex intercom system, operating on the 1.8 GHz DECT-frequencies (1880 – 1900 MHz), which are license-free in most countries. The products in the Peltor DECT-Com II family offer simple and efficient wireless duplex communication with up to nine active users able to talk in full conference and up to 40 listeners who have the ability to "break-in" to the conference. In a system with more than nine users any listening participant can change from listening to speaking.

- Duplex radio intercom system is designed to make it easy for your team to clearly communicate in noisy environments. Featuring digital radio technology and the advantage of hands-free transmission, it delivers the benefits needed to improve workplace efficiencies and help prevent accidents.
- Hands-Free Operation: The DECT-Com II main units provide hands-free, voice-activated duplex communications.
- Duplex Communication: Automatic transmit over-ride functionality is standard for all transmitters. A maximum of nine transceivers can operate in a simultaneous, conference duplex conversation at once.
- Multiple System Configurations: Flexible system configurations allow up to 40 team members to participate in a workgroup. The transceiver's design allows members to join and drop out of conference duplex discussions automatically as members stop talking.
- External Connectivity: Selected two-way radios can be integrated into a system configuration by using the DC2815 base/portable.
- Short range communication system: The nominal working range is approximately 250 metres outdoors in line of sight. 50 meters indoors in line of sight. The working range may be shorter due to actual conditions.
- Headset Options: Compatible with multiple Peltor headset models.



DC2812

Listen Only	
Two Way Comms	✓
Level Dependent	
Built in Comms	
Bluetooth	
AM/FM	
Intrinsically Safe	
MP3	

Description	Product Code	Configuration	Weight (g)	Class	SLC80	Colour
Base/Portable 1.8 GHz	DC2812	Base Unit	290	N/A	N/A	Black
Portable 1.8 GHz	DC2811	Base Unit	290	N/A	N/A	Black



# Adapter & Cable Solutions

Sturdy, water-resistant flex cables and adapters with integrated push-to-talk button (PTT) for connecting 3M™ Peltor™ headsets to communication radios, mobile telephones and other equipment.

Available in standard, ATEX/IECEX, Bluetooth and High Vis options.

# Flex Cables



Product code	Communication radio
FL6U-31	Alan 441
FL6U-31	Albecom 1221/1331/PD1000
FL6U-35	Albrecht Tectalk Contact 446 PMR
FL6U-31	Cobra
FL6U-21	HandiePro, Radius P110
FL6U-31	Hunter MK16, MK24
TAA13-T0299	ICOM F31/F41
FL6U-35	ICOM IC-F3GS, GT51/61 F4GS, GT etc with angled connector
FL6U-31	ICOM IC-F3S, F4S, IC-E90, LPD06,PMR06 (with straight connector)
TAA19-T0299	ICOM F34/F44
FL6U-36	Kenwood 260/270, 360/370 LPD, TH22E PMR etc
FL6U-31	Lafayette, DC31 Micro-3, DC155 Micro-3
FL6U-31	Maxon SL25
FL6U-21	Motorola GP300, CP040
FL6U-32	Motorola GP320, 328, 339, 340, 360, 380, 388, 640, 680, 1280
FL6U-61	Motorola Visar 3,5 mm, GP344/388 via Motorola adapter plug
AL3CB-T0299	Motorola GP900
TAA20-T0299	Motorola GP344/GP388, GP328+ /GP338 +
FL6U-62	Motorola TETRA MTH800/MTP850
TAA22-T0299	Vertex VX160/400
FL6U-31	TEKK
FL6U-31	Yeasu (older models)
FL6U-31	Zodiac PA2099/PA1599/PA5499/ PA5500/P2400 + various LPD/PMR radios
FL6U-58	Sepura SRP 2000 / SPM 3*000
FL6U-64	ICOM F33/F43 F34/F44
FL6U-65	Motorola GP344, GP328+
FL6U-66	Iphone/HTC
FL6U-101	Sepura STP8
FL6U-63	Motorola MOTOTRBO



Product code	DECT- and mobile phones
FL6U-28A	Ascom DECT 9d23/Offi ce 155 Pro -
FL6U-28	Ericsson 628/688/788/868/888/T10/T18/R5250s Pro and DT570
FL6U-28A	Ericsson DT400/DT410/DT420/DT590 -
FL6U-28	Ericsson GSM other models -
FL6U-28	Ericsson T20/T28/T29/T39/T65/T66/T68/ R310/R320/R380/R520/R600/T200/T300/T600
FL6U-28	Motorola GSM – most models have a jack on the side -
FL6U-28	Nokia 3210/3310/3330/3410/3510i/3650/5210/5510/6510/7650/8210/8310/8850/8890/8910
FL6U-28	Nokia 5100/6100/6610/6650/6800/7210/7250
FL6U-48	Nokia 5110/5130/6110/6150/6210/6310/6310i/7110
FL6U-28	SonyEricsson K310i, K610i, K750i, W800i, W550i, W900i, P990 and more

Handsfree adapter
-
TAH10
-
-
TAH11
-
TAH02
TAH03
TAH01
TAH12

Contact 3M for more cable options

# Standard Adapters

Product code	Communication radio
FL5001	Peltor™ "standard"
FL5005	Ericsson Freeset, Tateco CTS900 (2.5 mm plug)
FL5010	ICOM IC, Alan, Zodiac (straight connector), Yaesu, Alinco
FL5014	Motorola CP476, GP300
FL5017	Motorola Visar (GP344, GP388 with Motorola's adapter PMLN4455A)
FL5018	Motorola GP900, HT1000, MT2000, XTS2500, XTS5000
FL5019	Motorola Expo, Maxon Slim line
FL5030	Motorola GP340, GP320, GP328, GP339
FL5034	ICOM IC-F3GS, IC-F3GT, IC-F4GS, IC-F4GT (angled connector)
FL5035	Kenwood TK3101, Funkey
FL5042	Nokia TETRA THR880/ EADS TETRA THR880i
FL5044	ICOM F31/F41 F51/F61
FL5058	Sepura TETRA SRP2000 / SRH3*00
FL5061	Sailor SP3510, SP3520

Product code	Communication radio
FL5062	Motorola TETRA MTH800 / MTP850
FL5063	Motorola Mototrobo DP 3400
FL50-T9088	ICOM IC-M1 / M71
FL50-T9121	ICOM IC-A5 /A23
FL50-T9139	ICOM IC-F34/F44
FL50-T9140	Vertex VX 160 / 400
FL50-T9143	Motorola GP328+, 344, 388
FL50-T9148	Vertex VX 820, 920
FL50-T9150	Vertex HX370
FL5046	ICOM A6/A22
FL50101	Sepura Tetra STP8000
FL50-T9107	Kenwood TK 80, 290, 380
FL50-T9159	ICOM IC-M33





## Intrinsically Safe Adapters (IECEX EEx ib IIC T4)

Product code	Communication radio
FL5205	Tateco CTS900, Ericsson Freeset
FL5212	Motorola MX1000, MX2000, MX3000
FL5214	Motorola GP300 / Radius P110
FL5216	Ericsson P50/500
FL5218	Motorola HT1000, MT2000, GP900, GP1200, XTS2500, XTS5000 (ATEX EX II 2 G EEx ib IIC T4)
FL5230	Motorola GP320/340
FL5245	TP8000 Atlantis



## WS Adapters (Bluetooth™)

Product code	Communication radio
FL6007-WS5	Ground Mechanic adapter
FL6010-WS	ICOM IC, Alan, Zodiac (straight connector)
FL6014-WS	Motorola GP300, CP040, Radius P110
FL6018-WS	Motorola HT1000, MT2000, GP900
FL6030-WS	Motorola GP320/340
FL6034-WS	ICOM IC-F3GS, IC-F3GT, IC-F4GS, IC-F4GT (angled connector)
FL6035-WS	Kenwood TK 3101 Funkey
FL6042-WS	Nokia TETRA THR880 / EADS TETRA THR880i
FL6044-WS	ICOM F31/F41 F51/F61
FL6048-WS	ICOM IC-M1, IC-M90
FL6077-WS5	Flex Connector



## Ground Mechanic Adapters (Hi visibility)

Product code	cable	connector
FL5006-GB	Hi-Viz 3,0 - 6,0 m	Original plug PJ051B
FL5006-02 GB	Hi-Viz 3,0 - 6,0 m	Peltor Moulded
FL5006-03 GB	Hi-Viz 3,5 - 10,0 m	Peltor Moulded, switch hotmic
FL5008 GB	Hi-Viz 6,5 m	Original plug PJ051B
FL5008-02 GB	Hi-Viz 3,0 m	Peltor Moulded



## Lite-Com Cables

(Connection cords for external communication equipment)

Product code	Communication radio
FL6BR	For use with Peltor™ FL5000 adapters, with J11 connector (Nexus TP-120)
FL6BS	Connector cord with 2-pole 2.5 mm connector. For listening.
FL6BT	Connector cord with 2-pole 3.5 mm connector. For listening.
FL6CS	Connector cord with 3-pole 2.5mm connector for use with DECT and mobile phones
FL6CT	Connector cord with a 3-pole 3.5mm stereo connector. For listening to MP3 etc

## Audio Cables

(Connection cords for audio devices)

Product code	Communication radio
FL6H	3.5 mm mono jack
FL6M	2.5 mm mono jack
FL6N	3.5 mm stereo jack (MP3 players)
WTDSC	3.5 mm stereo jack (Worktunes Digital only)



# Accessories



## Headsets

Non Attenuation
High Attenuation Standard
High Attenuation Twin Cup
High Attenuation Flex Lead
High Attenuation WS Bluetooth™
High Attenuation ATEX
High Attenuation Aviation MT52 mic.
High Attenuation Aviation MT51 mic.
High Attenuation Ground Mechanics H79 cup
High Attenuation Ground Mechanics H540 cup

## Listen Only

High Attenuation
High Attenuation ATEX

## LiteCom

Lite-Com Plus
Lite-Com Pro II

## Tactical

SportTac
ProTac II
WS ProTac XP
ComTac XP
Tactical XP

## WorkStyle

Worktunes Plus
Worktunes Digital

## Hygiene kit

HY02
HY79
HY13
HY79
HY79
HY79
HY79
HY79
HY79
HY13

## Wind shield surround microphone

-
-
-
-
-
-
-
-
-
-

## Wind protection speech microphone

M40/1, M42/1
M40/1, M42/1
M40/1, M42/1
M995
M995
M40/1, M42/1
M40/1, M42/1
M995
M40/1, M42/1
M995

HY79
HY79

M60/2
M60/2

M995
M995

HY21
HY79
HY79
HY68 (sv)
HY79

210100-** (complete shells)
M60/2
M60/2
M60/2
M41/2

M40/1, M42/1
st headset M40/1, Flex M995

HY79
HYWTD

M60/2
-

M40/1
-



M42/1



M60/2



HY79





# Accessories

**Product code**

FP9007  
 HYM1000  
 HY100A  
 TK52  
 TK54  
 TK57-01/1  
 MT9  
 MT91-50  
 FL5602  
 FL5602-50  
 FR03AU  
 ACK03  
 MT52 900  
 MT53N-12 900

**Description**

Headset bag  
 Mike protector 5m  
 Hygiene pads 100's  
 PTT with J22  
 PTT with J22, 1,6 m cable  
 Finger PTT with J22, 1,0 m cable  
 Throat microphone, dynamic  
 Throat microphone, dynamic, ATEX  
 External PTT  
 External PTT (IECEx Ex ia IIC T4)  
 Charger for NIMH Battery  
 Rechargeable Battery NIMH 2.4V  
 Replacement Dynamic Mic  
 Replacement Electret Mic



FP9007



TK54



FL5602



TK57-01/1



MT91-50



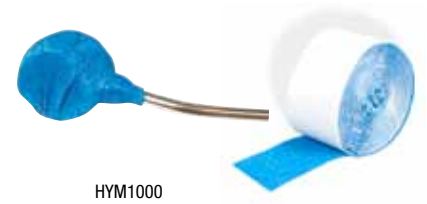
FL5602-50



FR03AU



ACK03



HYM1000

# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor™ Communications



3M E-A-R™ Peltor™ Hearing



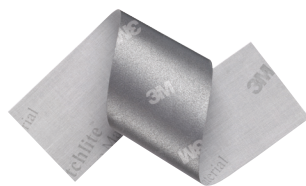
Eye Protection



Head & Face Protection



Speedglas™



Scotchlite™



Sorbents & Spill Management



Vending Solutions

# 3M™ Hearing Protection Solutions

Detection



Protection



Validation



# Hearing

# Protection Solutions

Made Innovatively Easy

The power to protect your world.™

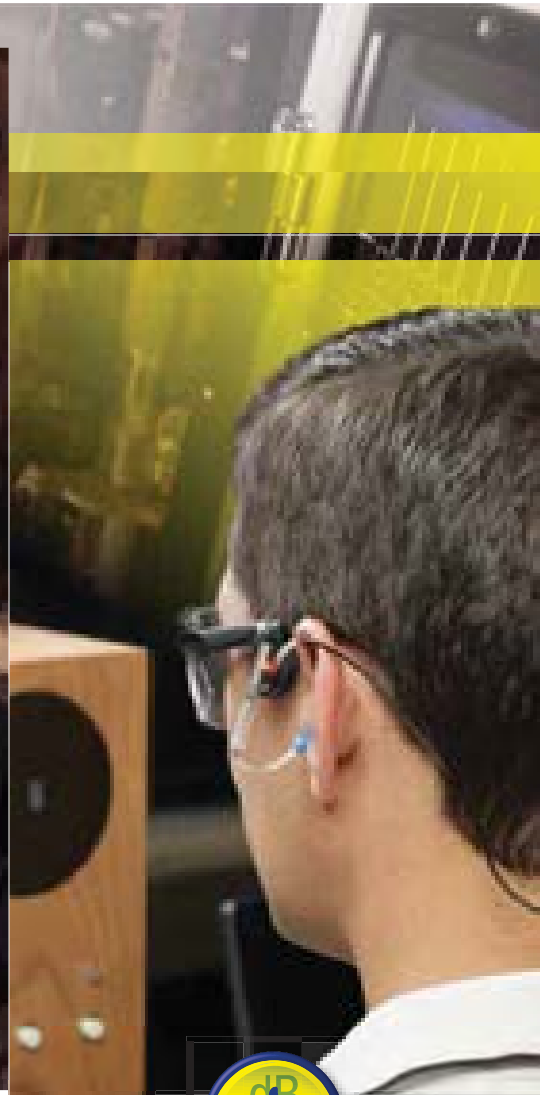




Detection



Protection



Validation

**When it comes to protecting workers' hearing, there is no one-size-fits-all solution.**

Understanding the challenge requires accurate sound detection. Delivering the right solution demands the right protection for the job. Verifying solutions calls for a validation system.

We deliver a complete set of tools needed to detect, protect and validate. It's 3M hearing protection solutions made innovatively easy.

# Selection Chart

AS/NZS Class	Class 1	Class 2	Class 3	Class 4	Class 5	
Exposure Levels ( $L_A$ eq 8hr)	85 < 90dB	90 < 95dB	95 < 100dB	100 < 105dB	105 < 110dB	$\geq 110$ dB
No Roll Down Earplugs			Express	Push-Ins Pistonz No Touch	Push-Ins with Grip Rings Skull Screws	Seek advice from your rep
Disposable Earplugs			Classic (corded) 1100 1110	Classic Classic Platinum Classic Superfit 30 E-A-Rsoft Superfit E-A-Rsoft Metal Detectable E-A-Rsoft Yellow Neons E-A-Rsoft Yellow Neon Blast 1120	E-A-Rsoft FX, TaperFit 2	Seek advice from your rep
Reusable Earplugs			Ultrafit EZ-Ins Ultrafit Metal Detectable Ultrafit Plus Ultrafit Plus Tri Flange 1270 1290/1291	Ultrafit 27		Seek advice from your rep
Banded Earplugs	Caboflex 600 E-A-R Caps	E-A-Rflex Foam E-A-Rflex Metal Detectable	Swerve with FLEX 28 Tips 1310	Swerve with Comfort Pods		Seek advice from your rep
Earmuffs				H6 Series H9 Series H505B Series	H10 Series, H7 Series H9A-02 Series 1426 1436	Seek advice from your rep
Earmuffs with Communications				SportTac	Pro Tac II Push-to-Listen Worktunes Plus Lite-Com III	Seek advice from your rep

## The Real World Concerns of Hearing Protection

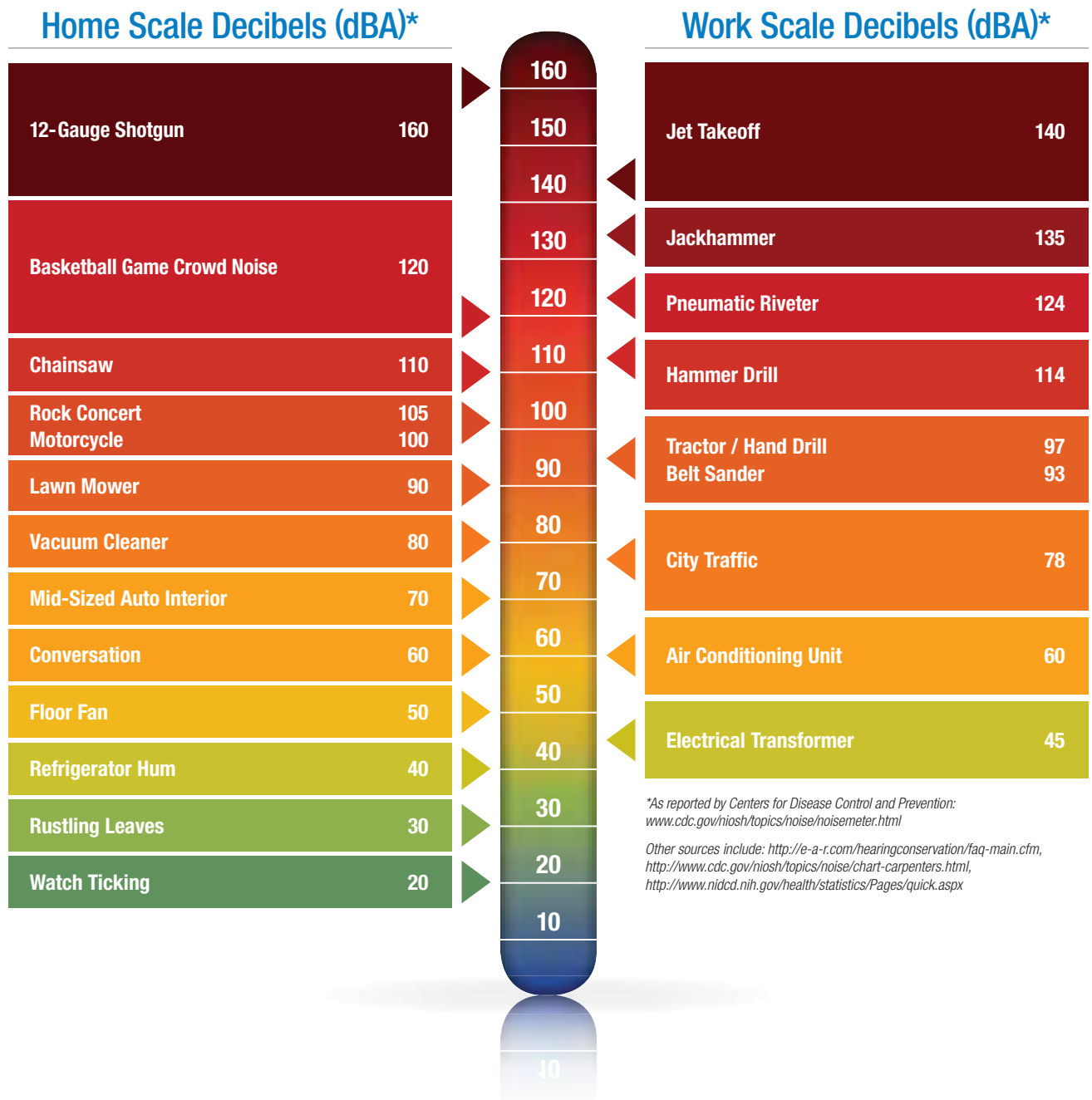
**Variable Noise Levels:** Every environment is different, and workers can face a wide range of sound levels throughout the day and in different areas at the same facility.

**The Human Factor:** Each person is physically unique, so there is no one-size-fits-all hearing protection solution. The key to achieving optimal protection is having the best fit possible.

**Employee Communication:** Many employees need to be able to communicate easily with co-workers and listen for workplace warning sounds, while being protected from hazardous noise levels.

## What Types of Sounds Require Hearing Protection?

At home and work, it's important to understand which sounds may cause hearing loss and require hearing protection:



# The Solution

Detection



Protection



Validation



## 3M Detection, Protection and Validation

As a global leader in sound and noise detection, hearing protection and fit test validation, 3M delivers easy and comprehensive solutions to complex hearing protection challenges.

**Accurate Noise Detection.** The first step in solving the challenge is to measure the noise levels facing your workers. 3M detection solutions make it easy to measure noise hazards, so you can select the appropriate protection for the job. Our detection instruments deliver accurate and reliable measurements, and detection management software makes it easy to report and share data.

**Adaptable Hearing Protection.** 3M delivers an unmatched variety of innovative hearing protectors, making it easy to select the right solution for the job. A variety of sizes and materials are available, helping your team determine the right fit for

each person, and the right protection for the application. Our innovative products are designed for comfortable, extended wear, and they can help your team comply with your safety program.

**Fit Test Validation.** Integrating hearing protector fit testing into your hearing conversation program benefits everyone from new hires to high-risk workers. The 3M™ E-A-Rfit™ Validation System makes it easier to fit, train and motivate workers and to assess and manage the long-term performance of your hearing conservation program.

**E·A·Rfit™**





3M's broad range of hearing protection devices in a variety of styles and materials helps you solve many of the challenges facing workers in various environments.



## Food Industry Worker

Susan works indoors at a food processing plant in a damp, refrigerated area. She leaves her hearing protectors in throughout her entire shift.

*She needs metal detectable earplugs or easy-to-clean earmuffs. And they have to be comfortable.*

“In my job, I don’t want complicated hearing protection. Just keep it simple.”



## Production Manager

John works indoors, and moves in and out of noisy areas continuously throughout the day. Most of the time he is on the phone or a two-way radio.

*He needs a hearing protection solution with wireless 2-way radio communications and ambient listening. In short, he needs to hear and communicate in noisy areas to do his job.*

“I need to be able to hear my co-workers communicate with me.”





## Iron Worker

Bill works in hot and humid environments, and often in tight spaces. He's constantly moving and takes his earplugs out frequently.

*He needs large-sized earplugs that don't have to be rolled down before inserting. If he's also wearing earmuffs, they need to fit within his welding helmet.*

"I don't like boring products. Give me some interesting choices for my hearing protection."

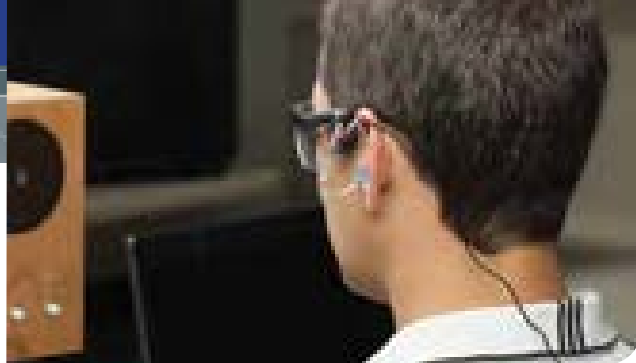
## Machine Operator

Julia works at the same station every day and wears safety glasses throughout her entire shift.

*She needs small-sized earplugs or earmuffs that are comfortable for extended wear.*

"My hearing protection has got to be comfortable. That's my top priority."

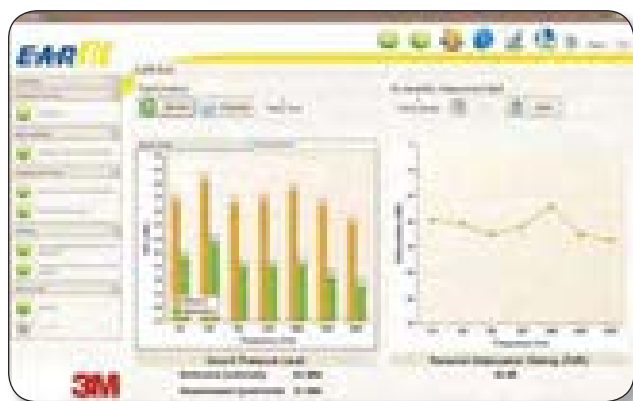




## Finding the Right Fit with the 3M™ E-A-Rfit™ Validation System

The E-A-Rfit Validation System measures the level of employee hearing protection by generating a Personal Attenuation Rating (PAR) in just 10 seconds per ear. The PAR indicates a workers' noise reduction levels for a given fitting and hearing protector.

The E-A-Rfit validation system assists employers in achieving optimal fit through hearing protection selection and employee training.



*The E-A-Rfit Validation System*

## An Integral Part of Your Hearing Protection Program

Integrating hearing protector fit testing into your hearing conservation program benefits everyone from new hires to high-risk workers.

## The 3M™ E-A-Rfit™ Validation System Helps You:

### Fit, Train and Motivate

- Serves as a tool for training proper fitting techniques and assessing fitting proficiency.
- Great for refitting or retraining after standard threshold shifts (STSs) are detected.
- Motivates employees by helping them realise the control they have in protecting their hearing.

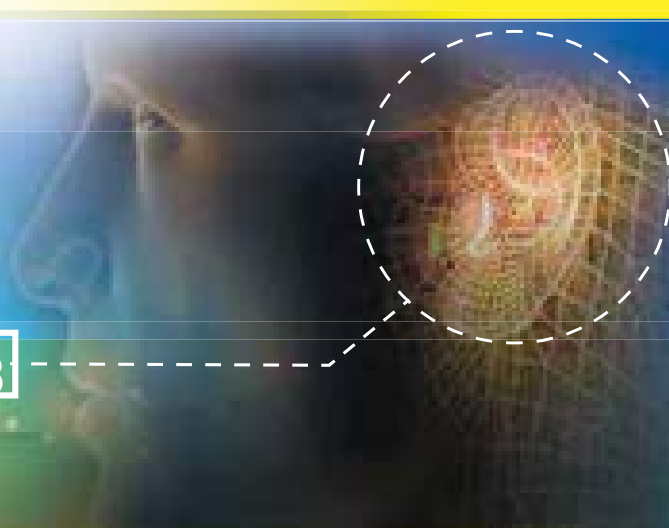
### Audit Your Team

- Establishes baseline values for new workers.
- Helps to identify workers receiving inadequate protection.
- Validates high protection levels required by workers in high noise areas.

### Assess and Manage

- Improves long-term performance of your hearing conservation program.
- Indicates which employees need further fit training or alternative hearing protectors.
- After noise exposure data is input, the E-A-Rfit software can help identify the most appropriate hearing protector(s) and help minimize over/under protection.

PAR 33  
PAR 32  
PAR 31  
PAR 30  
PAR 29  
**PAR 28**  
PAR 27  
PAR 26





## Technology and Support from the Hearing Protection Experts

### Employee Education and

### Training.

The 3M Hear Force™ Training provides valuable on-site training and seminars throughout Australia and New Zealand, helping employers and their workers achieve their hearing conservation goals. This training is based on AS/NZS 1269 and is conveniently performed on-site at no cost. Whether it's explaining attenuation ratings or regulations, or providing the motivation workers need to comply, 3M Hear Force trainers are available to help you achieve your hearing conservation program objectives. They're experts in hearing conservation training and will work with your team to help ensure your employees are protected with the right equipment for their jobs.



**Understanding Sound Level Conversion (SLC<sup>80</sup>).** A SLC<sup>80</sup> rating is determined based on how well the hearing protector performed in a laboratory. However, each hearing protector's SLC is not always a good estimate for workplace noise

reduction. Many factors, such as the relationship between the size of the wearer and size of the hearing protector, and how it has been inserted or fitted, can impact how effective that hearing protector will be. That's why it is so important to have the E-A-Rfit validation system as part of your hearing conservation program and the support of a hearing protection team with over 40 years of expertise.

**Innovation from the Experts.** At 3M, we understand the challenges of the workplace, the complexities of fitting protection devices, and the importance of creating adaptable solutions for maximising hearing protection. Our innovations in noise detection, protection and validation are designed to solve real-world challenges, providing our customers with the advanced and comprehensive solutions needed to help protect workers.



Detection

Protection

Validation



# Detection Solutions

Detection is the first step in identifying where hearing protection may be needed. 3M delivers intuitive solutions for effective noise monitoring programs. Durable, accurate, and easy-to-use instrumentation makes it simple to report and share noise exposure data. 3M Detection products deliver innovatively simple solutions to complex monitoring challenges.

# Detection Products

## Noise Indicator NI-100

The 3M™ Noise Indicator NI-100 alerts the wearer to potentially dangerous noise levels, helping identify areas where hearing protection may be needed. Users clip the Noise Indicator to a shirt or jacket, and its LED light provides a clear indication when noise levels exceed a potentially hazardous threshold. The NI-100's small size and lightweight design make it ideal for workers in a variety of industries.

- Affordable lightweight noise monitor with a durable, easy-to-use design
- Rechargeable battery that operates for up to 200 hours between charges
- Flashing green LED indicates if noise level is below 85 dBA
- Flashing red LED indicates noise level is above 85 dBA, indicating hearing protection may be needed



Product Number	Abbreviated General Description	Packaging
NI-100	Noise Indicator	10 units/case
053-575	USB Cable Accessory for Battery Charging	10 units/case

## Sound Detector SD-200

The 3M™ Sound Detector SD-200 is a compact, lightweight sound level meter designed for measurement of workplace noise levels. Its intuitive design makes it easy for users to measure sound levels and helps determine the attenuation of hearing protection that may be required. The integrating feature computes the average sound pressure level, allowing for more accurate assessment of intermittent sound levels.

- Simple, user-friendly interface; green, yellow and/or red LEDs flash when preset noise levels are reached
- A rechargeable lithium polymer battery operates up to 50 hours between charges
- Average sound pressure level delivers a steady reading where noise levels are highly variable
- Features a Class/Type 2 microphone
- Measures Sound Pressure Level (SPL), Average value ( $L_{EQ}/L_{AVG}$ ), LED alert, Maximum value (MAX), Minimum value (MIN), Run-Time, Overload (OL) and Under-Range (UR)
- Display range is 40 to 130 dB (Dynamic Range)



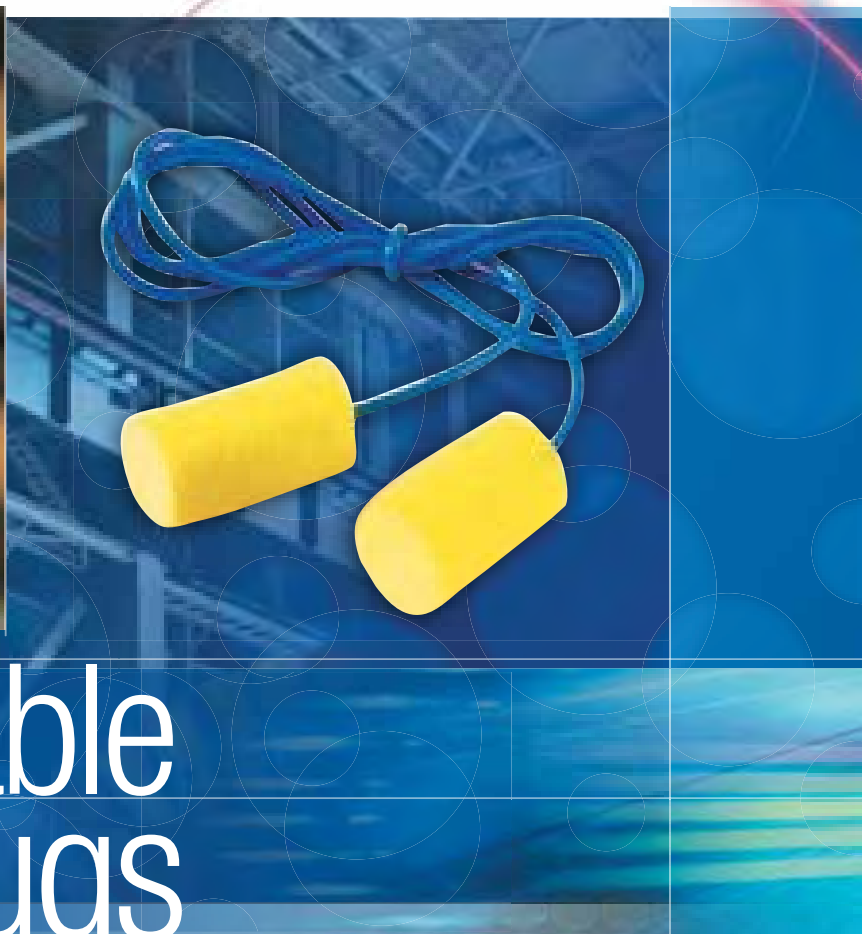
Product Number	Abbreviated General Description	Packaging
SD-200	Sound Detector Kit, USB Cable, Windscreen	1 unit/case
053-575	USB Cable Accessory for Battery Charging	10 units/case
SD-WS	Windscreen	1 unit/case

For more information on 3M's extensive range of detection products, please contact:  
Air-Met Scientific on 1800 000 744 (AU) or Global Science New Zealand on 0800 734 100 (NZ)

Detection

Protection

Validation



# Disposable Earplugs

3M™ Disposable Earplugs, made from expandable slow-recovery foam, provide the best combination of comfort and protection for most users. Once in the ear, foam earplugs expand to conform to the unique shape of each ear, providing a comfortable, custom fit. 3M provides a wide range of disposable roll-down earplugs so you can choose the best solution for your individual needs.

# 3M™ E-A-R™ Disposable Foam Earplugs

## E-A-R™ Classic™ Earplugs

Classic earplugs were the industry's first foam earplugs, virtually revolutionising hearing protection. Today, the revolution continues. It meets more wearer and environmental needs with its proprietary foams, preferred cylindrical shape, and proven in-ear comfort.



Available with Cord	✓
Moisture Resistant	✓
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>90</sup> 23dB (Class 4)

Product Number	Abbreviated General Description	Packaging
311-1101	Classic Earplug Corded, SLC <sup>90</sup> 21dB (Class 3)	200 pairs/box, 10 boxes/case
310-1001	Classic Earplug Uncorded, Pillow Pack	200 pairs/box, 10 boxes/case
312-1201	Classic Earplug Uncorded, Poly Bag	200 pairs/box, 10 boxes/case
391-1001	Classic One Touch Refill	500 pairs/bottle, 4 bottles/case
VP311-1101	Classic Earplug Corded, Vending Pack, SLC <sup>90</sup> 21dB (Class 3)	5 pairs/bag, 100 bags/case
VP312-1201	Classic Uncorded Earplug Vending Pack	5 pairs/bag, 100 bags/case

## E-A-R™ Classic™ Platinum™ Earplugs

The diameter of a Classic Platinum earplug is smaller than the Classic earplug (and the same length) to help provide optimum comfort and protection in narrow ear canals.



Available with Cord	
Moisture Resistant	✓
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>90</sup> 23dB (Class 4)

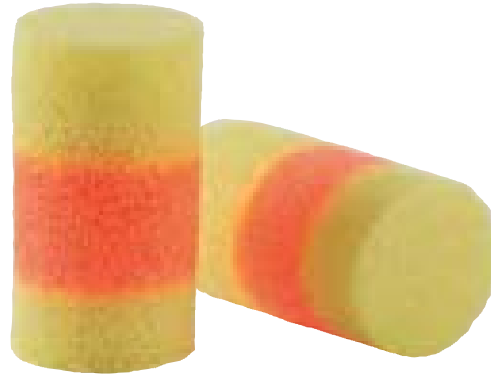
Product Number	Abbreviated General Description	Packaging
310-4002	Classic Platinum Earplug Uncorded, Pillow Pack	200 pairs/box, 10 boxes/case
310-4003	Classic Platinum Earplug Uncorded, Poly Bag	200 pairs/box, 10 boxes/case
391-1007	Classic Platinum One Touch Refill	500 pairs/bottle, 4 bottles/case



# 3M™ E-A-R™ Disposable Foam Earplugs

## E-A-R™ Classic™ SuperFit™ 30 Earplugs

SuperFit earplugs are the only earplug model with a unique “fitting ring” to easily see when the earplug is correctly fitted. When no orange color is visible, the best fit is achieved.



Available with Cord	✓
Moisture Resistant	✓
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	

LC<sup>80</sup> 23dB (Class 4)

Product Number	Abbreviated General Description	Packaging
311-1126	Classic SuperFit 30 Earplug Corded, Poly Bag, SLC <sup>80</sup> 22dB (Class 4)	200 pairs/box, 10 boxes/case
312-4201	Classic SuperFit 30 Earplug Uncorded, Poly Bag	200 pairs/box, 10 boxes/case
391-1009	Classic SuperFit 30 One Touch Refill	500 pairs/bottle, 4 bottles/case

## E-A-Rsoft™ Yellow Neons™ Earplugs

E-A-Rsoft Yellow Neons have a smooth texture for in-ear comfort and are made of an advanced foam formulation for all-day wearability. Offered in two sizes to comfortably fit in a wide range of ears, these high attenuation earplugs are ideal for many different noisy applications. Brightly colored for hearing protection compliance sighting, E-A-Rsoft Yellow Neons earplugs are an excellent choice for any hearing conservation program.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal-Detectable (311-4106 only)	✓
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>80</sup> 23dB (Class 4)

Product Number	Abbreviated General Description	Packaging
311-1250*	E-A-Rsoft Yellow Neons Regular Earplug Corded, Pillow Pack	200 pairs/box, 10 boxes/case
312-1250	E-A-Rsoft Yellow Neons Regular Earplug Uncorded	200 pairs/box, 10 boxes/case
311-1251	E-A-Rsoft Yellow Neons Large Earplug Corded	200 pairs/box, 10 boxes/case
312-1251	E-A-Rsoft Yellow Neons Large Earplug Uncorded	200 pairs/box, 10 boxes/case
311-4106	E-A-Rsoft Yellow Neons Metal Detectable Earplug with Metal Detectable Cord	200 pairs/box, 10 boxes/case
310-1250*	E-A-Rsoft Yellow Neons Uncorded, Pillow Pack	200 pairs/box, 10 boxes/case
391-1004	E-A-Rsoft Yellow Neons One Touch Refill	500 pairs/bottle, 4 bottles/case

\* Only available in NZ



## E-A-Rsoft™ Yellow Neon Blasts™ Earplugs

E-A-Rsoft Yellow Neon Blasts earplugs are made from a slowly expanding, polyurethane foam material. They provide evenly distributed pressure, giving flexibility and a good seal with optimum comfort. A red flame design adds fun to serious hearing protection.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>90</sup> 23dB (Class 4)

Product Number	Abbreviated General Description	Packaging
311-1252	E-A-Rsoft Yellow Neon Blasts Regular Earplug Corded	200 pairs/box, 10 boxes/case
312-1252	E-A-Rsoft Yellow Neon Blasts Regular Earplug Uncorded	200 pairs/box, 10 boxes/case
391-1010	E-A-Rsoft Yellow Neon Blasts Regular One Touch Refill	500 pairs/bottle, 4 bottles/case

## E-A-Rsoft™ SuperFit™ Earplugs

E-A-Rsoft SuperFit earplugs have a smooth texture for in-ear comfort and are made of an advanced foam formulation for outstanding softness. The exclusive orange fitting ring provides a built-in visual to help confirm proper fit.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>90</sup> 24dB (Class 4)

Product Number	Abbreviated General Description	Packaging
311-1254	E-A-Rsoft SuperFit Regular Earplug Corded	200 pairs/box, 10 boxes/case
312-1256	E-A-Rsoft SuperFit Regular Earplug Uncorded	200 pairs/box, 10 boxes/case
312-1255	E-A-Rsoft SuperFit Large Earplug Uncorded	200 pairs/box, 10 boxes/case
391-1254	E-A-Rsoft SuperFit Regular One Touch Refill	500 pairs/bottle, 4 bottles/case

# 3M™ E-A-R™ Disposable Foam Earplugs

## E-A-Rsoft™ FX™ Earplugs



FX earplugs feature a bell shape and super-soft, slow-recovery foam to effectively seal the ear canal and provide reliable hearing protection. Flared end helps make fitting and removal easier.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>90</sup> 26dB (Class 5)

Product Number	Abbreviated General Description	Packaging
312-1261	E-A-Rsoft FX Earplug Uncorded	200 pairs/box, 10 boxes/case
312-1260	E-A-Rsoft FX Earplug Corded	200 pairs/box, 10 boxes/case

## E-A-R™ TaperFit™ II Earplugs



Soft, roll-down foam earplugs conform to the unique shape of each ear canal to provide a low-pressure, comfortable seal. Offered in two sizes to fit most ears comfortably.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>90</sup> 26dB (Class 5)

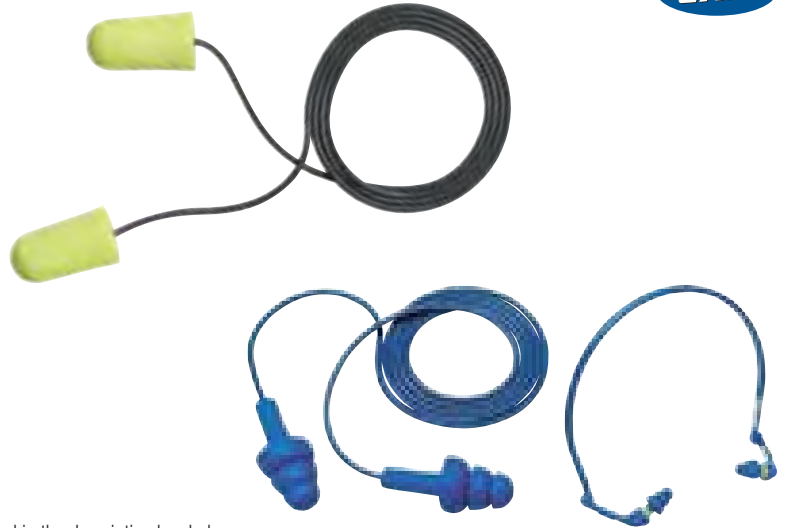
Product Number	Abbreviated General Description	Packaging
312-1219	E-A-R™ TaperFit™ II Regular Earplug Uncorded	200 pairs/box, 10 boxes/case
312-1221	E-A-R™ TaperFit™ II Large Earplug Uncorded	200 pairs/box, 10 boxes/case
312-1224	E-A-R™ TaperFit™ II Large Earplug Corded	200 pairs/box, 10 boxes/case



## E-A-R™ Metal Detectable Earplugs



All 3M™ Metal Detectable Earplugs have an integral stainless steel ball encased in the earplug. Ideal for use in food manufacturing industries, when contamination prevention is critical. Available in a variety of comfortable earplug styles to meet most wearer preferences and environmental needs.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	✓
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC values included in the description box below.

Product Number	Abbreviated General Description	Packaging
311-4106	E-A-Rsoft Yellow Neons Metal Detectable Earplug with Metal Detectable Cord SLC <sup>90</sup> 23dB (Class 4)	200 pairs/box, 10 boxes/case
340-4007	UltraFit Metal Detectable Earplug with Metal Detectable Cord SLC <sup>90</sup> 18dB (Class 3)	100 pairs/box, 4 boxes/case
350-3101	E-A-Rflex Metal Detectable Banded Earplug with Metal Detectable Arms SLC <sup>90</sup> 15dB (Class 2)	1 band/bag, 10 bags/case

## 3M™ Nitro™ Earplugs



With today's louder lifestyles, younger workers are an even bigger challenge when encouraging hearing protection compliance. Nitro earplugs offer a variety of eye-popping colors in each dispenser box, which promotes hearing protection compliance sighting. Advanced foam formulation conforms to the unique shape of each ear canal for enhanced comfort and fit.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>90</sup> 26dB (Class 5)

Product Number	Abbreviated General Description	Packaging
P1001	Nitro Earplug Corded, SLC <sup>90</sup> 27dB (Class 5)	100 pairs/box, 10 boxes/case
P1000	Nitro Earplug Uncorded	200 pairs/box, 10 boxes/case

# 3M™ E-A-R™ Disposable Foam Earplugs

## 3M™ 1120 Foam Earplugs

The unique articulated design reduces pressure inside the ear canal for improved all day comfort. Soft hypo-allergenic foam provides greater comfort and is less sensitive to temperature.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable (311-4101 only)	
Slow-Recovery Foam	✓
No Roll-Down Required	

SLC<sup>80</sup> 22dB (Class 4)

Product Number	Abbreviated General Description	Packaging
1120	Foam Earplug Uncorded	200 pairs/box, 5 boxes/case
1130	Foam Earplug Corded	100 pairs/box, 5 boxes/case
1120-BT	Foam Earplug One Touch Refill	500 pairs/bottle, 1 bottle/case

## 3M™ 1100 Foam Earplugs

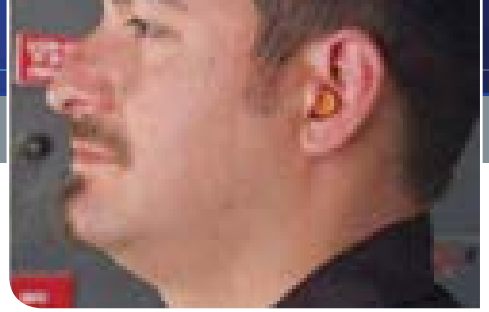
Get the protection you need from the brand you can trust — at an affordable price — with 3M 1100 and 1110 earplugs. Soft, hypoallergenic foam and a tapered design provide a noise-reducing seal in the ear canal. 3M 1100 and 1110 earplugs are easy to roll down, and once fitted in the ear, soften with body temperature for comfortable extended wear.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow Recovery Foam	✓
No Roll-Down Required	

SLC<sup>80</sup> 21dB (Class 3)

Product Number	Abbreviated General Description	Packaging
1100	Foam Earplug Uncorded	200 pairs/box, 5 boxes/case
1110	Foam Earplug Corded	100 pairs/box, 5 boxes/case
1100-BT	Foam Earplug One Touch Refill	500 pairs/bottle, 1 bottle/case



## 3M™ One Touch™ Dispenser

The One Touch dispenser offers convenient access to workers on the move. The “No Waste Funnel” delivers earplugs with each turn. The reusable, free-standing base can be re-stocked with One Touch refills of our most popular 3M™ E-A-R™ Earplugs. The versatile design includes tabletop or wall-mount options for convenient dispensing.



Refill Bottles



Classic™

Yellow Neons™

Yellow Neon Blasts™

E-A-Rsoft™ SuperFit™

1100

Solar™

Product Number	Abbreviated General Description	Packaging
391-1000	One Touch Dispensing Unit with Stand	1 dispenser/case
391-1001	Classic One Touch Refill	500 pairs/bottle, 4 bottles/case
391-1009	Classic SuperFit 30 One Touch Refill	500 pairs/bottle, 4 bottles/case
391-1004	E-A-Rsoft Yellow Neons One Touch Refill	500 pairs/bottle, 4 bottles/case
391-1008	E-A-Rsoft Yellow Neons Large One Touch Refill	500 pairs/bottle, 4 bottles/case
391-1010	E-A-Rsoft Yellow Neon Blasts Reg. One Touch Refill	500 pairs/bottle, 4 bottles/case
391-1254	E-A-Rsoft SuperFit Reg One Touch Refill	500 pairs/bottle, 4 bottles/case
391-1007	Classic Platinum One Touch Refill	500 pairs/bottle, 4 bottles/case
1100-BT	3M 1100 Foam Earplug One Touch Refill	500 pairs/bottle, 1 bottle/case
1120-BT	3M 1120 Foam Earplug One Touch Refill	500 pairs/bottle, 1 bottle/case
PN-01-011	3M Solar Foam Earplug One Touch Refill	500 pairs/bottle, 4 bottles/case

## E-A-R™ Vending Packs

Earplugs conveniently packaged for vending purposes.



Classic™

Push-Ins™

UltraFit™

Product Number	Abbreviated General Description	Packaging
VP311-1101	Classic Corded, Vending Pack, SLC <sup>80</sup> 21dB (Class 3)	5 pairs/bag, 100 bags/case
VP312-1201	Classic Uncorded Earplug, Vending Pack, SLC <sup>80</sup> 23dB (Class 4)	5 pairs/bag, 100 bags/case
VP318-1001	Push-Ins Corded, Vending Pack, SLC <sup>80</sup> 23dB (Class 4)	5 pairs/bag, 100 bags/case
VP340-4004	UltraFit Corded, Vending Pack, SLC <sup>80</sup> 18dB (Class 3)	5 pairs/bag, 100 bags/case

# 3M™ E-A-R™ Disposable Dispensers

## E-A-R™ Trade Packs

The Trade Packs are a convenient pocket sized pack designed to reduce wastage and cost. They are ideal for small businesses such as contractors and trades people looking to purchase quality PPE in a packout configuration that suits their consumption.



Product Number	Abbreviated General Description	Packaging
TP391-1001	Classic Uncorded Trade Pack SLC <sup>90</sup> 23dB (Class 4)	10 pairs/pack, 12 packs/case
TP312-1261	FX Uncorded Trade Pack SLC <sup>90</sup> 26dB (Class 5)	10 pairs/pack, 12 packs/case
TP318-1009	Push Ins w/Grip Rings Corded Trade Pack SLC <sup>90</sup> 26dB (Class 5)	5 pairs/pack, 12 packs/case
TP340-4004	Ultrafit Corded Trade Pack SLC <sup>90</sup> 18dB (Class 3)	5 pairs/pack, 12 packs/case

Detection



Protection



Validation



# Push-to-Fit Earplugs

Simply hold 3M™ Push-to-Fit Earplugs by the stem then push them into place—there is no roll-down required for a clean and comfortable fit. The soft foam tip quickly adjusts to the shape of the ear canal to help create a noise-reducing seal. Since you don't touch the foam tip, they are easy to fit and keep clean, even when your hands are dirty or you are wearing gloves.



# Push-to-Fit Earplugs

## E-A-R™ Express™ Pod Earplugs

The unique pod design of Express earplugs allows the foam to compress easily so the earplug slides gently into the ear and expands slowly, making an effective seal for most earcanals. A flexible stem makes fitting easy.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	✓

SLC<sup>80</sup> 19dB (Class 3)

Product Number	Abbreviated General Description	Packaging
321-2115	Express Assorted Earplug Corded, Pillow Pack	100 pairs/box, 4 boxes/case
321-3200	Express Assorted Earplug Uncorded, Pillow Pack	100 pairs/box, 4 boxes/case

## E-A-R™ Push-Ins™ Earplugs

No roll-down is required with these earplugs. A gentle push is all it takes for easy, consistent fitting. Blue stem makes fitting and removal easy and helps keep the tips clean when the wearer's hands are dirty. The unique, soft 3M™ E-A-Rform™ Foam Tip is shaped and sized to mold comfortably to fit most ear canals.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	✓

SLC<sup>80</sup> 23dB (Class 4)

Product Number	Abbreviated General Description	Packaging
318-1003	Push-Ins Earplug Corded	200 pairs/box, 10 boxes/case
318-1002	Push-Ins Earplug Uncorded	200 pairs/box, 10 boxes/case
VP318-1001	Push-Ins Earplug Corded, Vending Pack	5 pairs/bag, 100 bags/case



## E-A-R™ Push-Ins™ with Grip Rings



Push-Ins earplugs with proprietary Grip Rings gently seal the ear canal to enhance fit. The flexible stem makes insertion and removal easy and helps keep the tips clean when the wearer's hands are dirty. Foam tips made of soft polyurethane foam.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	✓

SLC<sup>90</sup> 26dB (Class 5)

Product Number	Abbreviated General Description	Packaging
318-1009	Push-Ins with Grip Rings Earplug Coded	200 pairs/box, 10 boxes/case
318-1008	Push-Ins with Grip Rings Earplug Uncoded	200 pairs/box, 10 boxes/case

## 3M™ Pistonz™ Earplugs



These earplug tips look like metal, but feel ultra-soft. They are made of a specially formulated foam that is so soft and comfortable the earplugs can be worn all day long. The cylindrical shape is designed to fit and seal most size ear canals. The stem is stiff enough to insert yet is designed to flex sideways if impacted during wear. No need to roll foam tips before fitting. Just grip the stem and insert tip into the ear canal — right out of the package.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	✓

SLC<sup>90</sup> 25dB (Class 4)

Product Number	Abbreviated General Description	Packaging
P1401	Pistonz Earplug Coded	100 pairs/box, 4 boxes/case
P1400	Pistonz Earplug Uncoded	100 pairs/box, 4 boxes/case

# Push-to-Fit Earplugs

## 3M™ Skull Screws™ Earplugs



Skull Screws earplugs perform as tough as they look by providing excellent protection for noisy environments. The metallic colour makes the earplugs look solid, but they are made from ultra-soft foam that provides day long comfort. Grab the attention of your young workers with these radically designed, push-to-fit earplugs and help boost hearing protection and compliance at the same time.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	✓

SLC<sup>90</sup> 26dB (Class 5)

Product Number	Abbreviated General Description	Packaging
P1300	Skull Screws Earplug Uncorded	120 pairs/box, 4 boxes/case
P1301	Skull Screws Earplug Corded	120 pairs/box, 4 boxes/case

## 3M™ No-Touch™ Earplugs



Soft, purple No-Touch push-to-fit foam earplugs create a hygienic, noise-reducing seal in the ear canal with soft foam, a smooth tapered shape and paddle stems. Push-to-fit design makes fitting hearing protection easy, with no roll-down required. Available with or without cord.



Available with Cord	✓
Moisture Resistant	
Reusable	
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	✓

SLC<sup>90</sup> 25dB (Class 4)

Product Number	Abbreviated General Description	Packaging
P2001	No-Touch Earplug Corded	100 pairs/box, 4 boxes/case
P2000	No-Touch Earplug Uncorded	100 pairs/box, 4 boxes/case



## Support Materials

The perfect tools to enhance your hearing conservation training.

[www.e-a-r.com/hearingconservation/booklet\\_main.cfm](http://www.e-a-r.com/hearingconservation/booklet_main.cfm)



Product Number	Abbreviated General Description	Packaging
319-1002	Clear Ear	1 unit/case
319-1003	Roll Model	1 unit/case
85099-00000	Ear Gauge Earcanal Sizing Tool	50 units/case

Detection

Protection

Validation



# Reusable Earplugs

These durable, long-lasting earplugs are made from soft, flexible materials that are washable and reusable. The tapered tips are pre-molded to fit a wide range of earcanal sizes comfortably. Available in a variety of styles and protection levels.

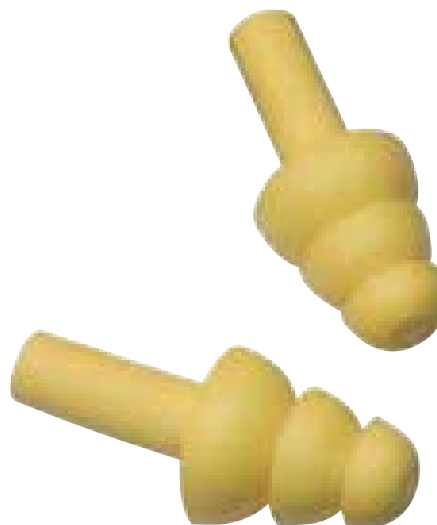
# 3M™ E-A-R™ Reusable Earplugs

## E-A-R™ UltraFit™ Earplugs

A proven triple-flange design and pliable, premolded material make UltraFit earplugs a more comfortable fit for most ear canals. These durable, reusable earplugs are easy to use again and again, reducing waste. They can be cleaned easily with soap and water. Since there is no need to roll them down before fitting, simply push them into the ear canal for clean and comfortable noise reduction.

Available with Cord	✓
Moisture Resistant	✓
Reusable	✓
Metal Detectable	✓
Slow-Recovery Foam	
No Roll-Down Required	✓

SLC<sup>80</sup> 18dB (Class 3)



Product Number	Abbreviated General Description	Packaging
340-4002	UltraFit Earplug Corded, with Case	50 pairs/box, 4 boxes/case
340-4004	UltraFit Earplug Corded	100 pairs/box, 4 boxes/case
VP340-4004	UltraFit Earplug Corded, 5-Pair Vending Pack	5 pairs/bag, 100 bags/case
340-4001	UltraFit Earplug Uncorded, with Case	50 pairs/box, 4 boxes/case
340-4007	UltraFit Metal Detectable Earplug Corded	100 pairs/box, 4 boxes/case

## E-A-R™ UltraFit™ 27 Earplugs

Soft, flexible triple-flange tips provide enhanced fitting and noise reduction. Pistol-grip stems provide fingertip control for easy fitting.

Available with Cord	✓
Moisture Resistant	✓
Reusable	✓
Metal Detectable	
Slow-Recovery Foam	
No Roll-Down Required	✓

SLC<sup>80</sup> 22dB (Class 4)



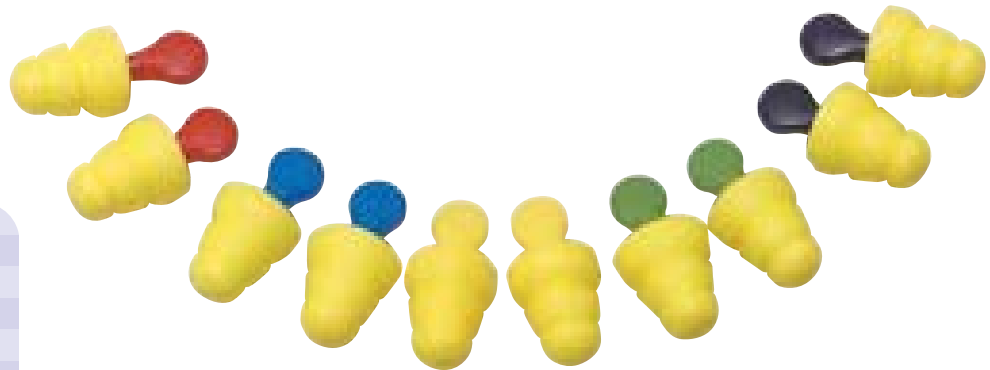
Product Number	Abbreviated General Description	Packaging
340-8002	UltraFit 27 Earplug Corded	100 pairs/box, 4 boxes/case
340-8001	UltraFit 27 Earplug Uncorded	100 pairs/box, 4 boxes/case

# Reusable Earplugs

## E-A-R™ UltraFit™ Plus™ Earplugs



UltraFit Plus earplugs offer quick, hygienic and easy fitting with paddle-style stems. A variety of stem colors are available. An optional storage case keeps earplugs clean when not in use.



- Available with Cord ✓
- Moisture Resistant ✓
- Reusable ✓
- Metal Detectable
- Slow-Recovery Foam
- No Roll-Down Required ✓

SLC<sup>90</sup> 19dB (Class 3)

Product Number	Abbreviated General Description	Packaging
340-6002*	UltraFit Plus Earplug Corded, with Case	50 pairs/box, 4 boxes/case

\* Only available in NZ

## 3M™ Tri-Flange™ Earplugs



Soft, flexible flanges adapt to the shape of the ear canal to comfortably reduce exposure to noise. The plastic stem allows the wearer to fit the earplugs quickly and easily without touching the premolded tips. Choose from a vinyl or cloth cord.



- Available with Cord ✓
- Moisture Resistant ✓
- Reusable ✓
- Metal Detectable
- Slow-Recovery Foam
- No Roll-Down Required ✓

SLC<sup>90</sup> 19dB (Class 3)

Product Number	Abbreviated General Description	Packaging
P3000	Tri-Flange Earplug Corded	100 pairs/box, 4 boxes/case
P3001	Tri-Flange Earplug with Cloth Cord	100 pairs/box, 4 boxes/case



## 3M™ 1200 Earplugs

This ear plug is lightweight, comfortable and easy-to-use for workers in a wide variety of industrial and commercial applications.

Available with Cord	✓
Moisture Resistant	✓
Reusable	✓
Metal Detectable	
Slow-Recovery Foam	
No Roll-Down Required	✓



SLC<sup>80</sup> 18dB (Class 3)



SLC<sup>80</sup> 21dB (Class 3)



Product Number	Abbreviated General Description	Packaging
1270	1270 Corded	100 pairs/box, 5 boxes/case
1271	1271 Cased Corded	50 pairs/box, 5 boxes/case
1290*	1290 Cloth Corded	100 pairs/box, 5 boxes/case
1291*	1291 Cased Cloth Corded	50 pairs/box, 5 boxes/case

\*Only available in NZ

## ClearE-A-R™ 20 Earplugs

The ClearE-A-R 20 has been designed to offer optimum attenuation and is ideally suited in medium noise risk areas without affecting vital communication with your colleagues or customers. The high precision filter controls the flow of sound to maintain a connection with the outside world.

Available with Cord	
Moisture Resistant	✓
Reusable	✓
Metal Detectable	
Slow-Recovery Foam	
No Roll-Down Required	✓



SLC<sup>80</sup> 18dB (Class 3)



Product Number	Abbreviated General Description	Packaging
UF-01-021	ClearE-A-R 20 Earplug Uncorded	1 pair/box, 12 boxes/case

\*Only available via firm order



# 3M™ E-A-R™ Reusable Earplugs

## E-A-R™ Combat Arms™ Earplugs Dual Ended



Designed for the military, the combat arms earplugs allow sound to travel into the opening at the middle of the earplug and down the sound channel in the yellow end of the earplug to the special filter. The filter allows lower-level sounds to pass with limited interruption but high-level impulsive noises are restricted. The more intense the impulse, the more it is limited.



Available with Cord	
Moisture Resistant	✓
Reusable	✓
Metal Detectable	
Slow-Recovery Foam	
No Roll-Down Required	✓

SLC80 17dB (Class 2) olive end inserted in ear.

SLC80 11dB (Class 1) yellow end inserted in the ear.

Product Number	Abbreviated General Description	Packaging
370-1000	CAE Earplug Uncorded	1 pair/box, 50 boxes/case

\*Only available via firm order

## E-A-R™ Combat Arms™ Earplugs Single Ended



If the rocker cover is in Open/Weapons Fire mode, sound travels into the earplug and down the sound channel to the special filter. The filter allows lower-level sounds to pass with limited interruption but high-level impulsive noises are restricted. The more intense the impulse, the more it is limited.



Available with Cord	✓
Moisture Resistant	✓
Reusable	✓
Metal Detectable	
Slow-Recovery Foam	
No Roll-Down Required	✓

Open/Weapons Fire Mode SLC<sup>90</sup> 13dB (Class 1)

Closed/Constant Protection Mode SLC<sup>90</sup> 22dB (Class 4)

Product Number	Abbreviated General Description	Packaging
370-1030	CAE Earplug Small	1 pair/box, 50 boxes/case
370-1031	CAE Earplug Regular	1 pair/box, 50 boxes/case
370-1032	CAE Earplug Large	1 pair/box, 50 boxes/case

\*Only available via firm order

Detection



Protection



Validation



# Banded Hearing Protectors

Banded hearing protectors are an easy-to-use, convenient alternative to insert earplugs and earmuffs. They are quick to put on and take off and may be stored around the neck in between uses, making them ideal for intermittent use. Banded hearing protectors offer simplicity to help ensure your workers are receiving the right level of protection. Most models are available with replacement tips, which make them a very cost-effective option.

# Banded Hearing Protectors

## E-A-Rflex™ Hearing Protectors

A comfortable, effective, lightweight alternative to earmuffs. Ideal for people who fit and remove their hearing protection frequently. Soft tips pivot to help maintain a comfortable, noise-blocking seal. Multi-position wearing with conical tips.



Replacement Tips Available



Moisture Resistant

- Reusable ✓
- Metal Detectable ✓
- Slow-Recovery Foam ✓
- No Roll-Down Required ✓

SLC<sup>80</sup> 15dB (Class 2)

Product Number	Abbreviated General Description	Packaging
350-3001	E-A-Rflex Hearing Protector	1 band/bag, 10 bags/case
350-3002	E-A-Rflex Replacement Tips	50 pairs/box, 10 boxes/case
350-3101	E-A-Rflex Metal Detectable Hearing Protector	1 band/bag, 10 bags/case

## E-A-R™ Caboflex™ Hearing Protectors

This lightweight, banded hearing protector is ideal when moving in and out of noisy areas, fitting comfortably around the neck when not in use. Each cone-shaped tip pivots to align with the ear canal, providing comfortable protection against noise.

Band may be worn under the chin or behind the head.



- Moisture Resistant ✓
- Reusable ✓
- Metal Detectable ✓
- Slow-Recovery Foam ✓
- No Roll-Down Required ✓

SLC<sup>80</sup> 11dB (Class 1)

Product Number	Abbreviated General Description	Packaging
320-2001	Caboflex Model 600 Hearing Protector	1 band/bag, 10 bags/case



## E-A-Rcaps™ Hearing Protectors

One of the lightest banded hearing protectors on the market, E-A-Rcaps banded hearing protectors feature comfortable foam caps on a flexible band to block the ear canal opening. Ideal for visitors to a noisy facility or people who need hearing protection for short periods of time.



Moisture Resistant	
Reusable	✓
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	✓

SLC<sup>90</sup> 11dB (Class 1)

Product Number	Abbreviated General Description	Packaging
321-2101	E-A-Rcaps Model 200 Hearing Protector	1 band/bag, 10 bags/case

## E-A-R™ Swerve™ Banded Hearing Protector

Comfort meets performance as the unique Swerve banded earplugs incorporate a cutting-edge band design with the effectiveness of E-A-R foam earplugs. The ergonomic design minimises interference, and the neckband shape helps eliminate contact with collars and headgear, which reduces band sound transmission. The band slides forward and backward for custom neck and ear positioning. It is also supplied with a removable cotton lanyard.



Replacement Tips Available



Moisture Resistant	
Reusable	✓
Metal Detectable	
Slow-Recovery Foam	✓
No Roll-Down Required	✓

Comfort Pods: SLC<sup>90</sup> 23dB (Class 4)  
Flex 28 Tips: SLC<sup>90</sup> 20dB (Class 3)

Product Number	Abbreviated General Description	Packaging
322-2000	Swerve Banded Hearing Protector	1 band/bag, 10 bags/case
322-2001	Replacement Comfort Pod Tips	5 pairs/bag, 10 bags/case
320-1001	E-A-RFlex 28 Replacement Tips	5 pairs/bag, 10 bags/case

# Banded Hearing Protectors

## 3M™ 1310 Hearing Protector

3M Banded Earplugs are easy to use, convenient and extremely comfortable. They are quick to put on and off and to store around the neck when not required, making them ideal for intermittent use. Banded earplugs offer simplicity to help your workers receive protection from hazardous noise. The flexible band for allows for easy manipulation and constant low pressure in the ear. The soft round foam ear plugs also reduce pressure and provide a comfortable seal.



Moisture Resistant

Reusable



Metal Detectable

Slow-Recovery Foam



No Roll-Down Required



**SLC80 18 dB (Class 3) - when worn under chin**

**SLC80 13dB (Class 1)- when worn behind the neck.**

Product Number	Abbreviated General Description	Packaging
1310	1310 Banded Hearing protector	10 bands/box, 5 boxes/case
1311	1311 Replacement Tips	20 pairs/box, 5 boxes/case

\*Note: Wearing banded hearing protectors in ways other than as per the fitting instructions can lead to different attenuation results.

Detection



Protection



Validation



# Passive Earmuffs

Earmuffs are a popular choice in hearing protection due to their ease of use and consistent fit. Available in headband, neckband, hard hat attached, and folding models, earmuffs help meet hearing protection needs in many common applications.

# 3M™ Peltor™ Passive Earmuffs

## Peltor™ Extreme Performance Earmuffs - H10 Series

The H10 Series is a high performance hearing protector and has been developed for use in extremely noisy environments. The protection is based on a technology with a double casing minimising resonance in the casing giving optimum high-frequency attenuation. An acoustic connection between the inner and outer casings provides maximum low-frequency attenuation. The sealing rings are broad and filled with soft plastic foam for the best fit and low contact pressure.

Electrically Insulated (Dielectric)	✓
Neckband	✓
Folding Headband	✓
Hard Hat Attached	✓
Hi-Viz	✓
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



Product Number	Abbreviated General Description	Packaging
H10A	Over-the-Head Dual Cup Earmuff SLC <sup>80</sup> 33dB (Class 5)	1 pair/box, 10 boxes/case
H10A HV	Hi-Viz Over-the-Head Green Dual Cup Earmuff SLC <sup>80</sup> 33dB (Class 5)	1 pair/box, 10 boxes/case
H10B	Behind-the-Head Dual Cup Earmuff SLC <sup>80</sup> 34dB (Class 5)	1 pair/box, 10 boxes/case
H10P3E	Hard Hat Attached Dual Cup Earmuff SLC <sup>80</sup> 33dB (Class 5)	1 pair/box, 10 boxes/case
H10P3G	Hard Hat Attached Dual Cup Earmuff SLC <sup>80</sup> 33dB (Class 5)	1 pair/box, 10 boxes/case
H10P3M*	Hard Hat Attached Dual Cup Earmuff SLC <sup>80</sup> 33dB (Class 5)	1 pair/box, 10 boxes/case
H10P3E-01*	Hard Hat Attached Dual Cup Electrically Insulated (Dielectric) Earmuff SLC <sup>80</sup> 33dB (Class 5)	1 pair/box, 10 boxes/case
HY10	Hygiene Kit 1 Pr Cushions/1 Pr Foam Inserts for H10 Series	1 kit/bag, 20 bags/case

\*Only available in NZ \*Firm order only

## Peltor™ Select Performance Earmuffs - H9 Series

The H9 Series offers versatile protection and is very lightweight providing high wearer comfort. It combines a low profile with generous inner depth which makes it easy to combine with other equipment, allowing the ear to rest comfortably. It is ideal for use in environments with moderate industrial noise, such as workshops, sheetmetal shops and printing works, but also suitable for outdoors, such as lawn mowing or in connection with hobbies and leisure activities.

Electrically Insulated (Dielectric)	✓
Neckband	✓
Folding Headband	✓
Hard Hat Attached	✓
Hi-Viz	✓
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



Product Number	Abbreviated General Description	Packaging
H9A	Over-the-Head Yellow Earmuff SLC <sup>80</sup> 24dB (Class 4)	1 pair/box, 10 boxes/case
H9B	Behind-the-head Yellow Earmuff SLC <sup>80</sup> 24dB (Class 4)	1 pair/box, 10 boxes/case
H9P3E	Hard Hat Attached Yellow Earmuff SLC <sup>80</sup> 24dB (Class 4)	1 pair/box, 10 boxes/case
H9P3G	Hard Hat Attached Yellow Earmuff SLC <sup>80</sup> 24dB (Class 4)	1 pair/box, 10 boxes/case
H9P3M*	Hard Hat Attached Yellow Earmuff SLC <sup>80</sup> 24dB (Class 4)	1 pair/box, 10 boxes/case
HY5	Replacement Hygiene Kit 1 Pr Cushions/1 Pr Foam Inserts for H6 and H9 Series	1 kit/bag, 20 bags/case

\*Only available in NZ



## Peltor™ Deluxe Earmuffs - H7 Series

The H7 Series has been developed for demanding noisy environments with increased low frequency attenuation. The sealing rings are filled with a unique combination of liquid and foam. The result is an optimum seal with low contact pressure, which provides agreeable comfort even during long-term use. The H7 Series is a suitable choice for typical environments with substantial industrial noise or construction machinery, airports and agricultural work.

Electrically Insulated (Dielectric)	
Neckband	✓
Folding Headband	✓
Hard Hat Attached	✓
Hi-Viz	✓
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



**PELTOR™**



Product Number	Abbreviated General Description	Packaging
H7A	Over-the-Head Green Earmuff SLC <sup>80</sup> 30dB (Class 5)	1 pair/box, 10 boxes/case
H7B	Behind-the-Head Green Earmuff SLC <sup>80</sup> 28dB (Class 5)	1 pair/box, 10 boxes/case
H7P3E	Hard Hat Attached Green Earmuff SLC <sup>80</sup> 30dB (Class 5)	1 pair/box, 10 boxes/case
H7P3G	Hard Hat Attached Green Earmuff SLC <sup>80</sup> 30dB (Class 5)	1 pair/box, 10 boxes/case
H7P3M*	Hard Hat Attached Green Earmuff SLC <sup>80</sup> 30dB (Class 5)	1 pair/box, 10 boxes/case
H7F	Folding Green Earmuff SLC <sup>80</sup> 31dB (Class 5)	1 pair/box, 10 boxes/case
H7F HV	HV Hi Vis Folding Green Earmuff SLC <sup>80</sup> 31dB (Class 5)	1 pair/box, 10 boxes/case
HY3	Replacement Hygiene Kit for H7 Type Hearing Protectors	1 kit/bag, 20 bags/case

\*Only available in NZ

## Peltor™ Low Profile Earmuffs - H6 Series

The H6 Series is specially engineered for high comfort and continuous wear. They provide effective noise protection for daily exposures up to 104dB. The foam sealing rings provide a quality noise seal with low pressure for all day wearer comfort.

Electrically Insulated (Dielectric)	
Neckband	✓
Folding Headband	✓
Hard Hat Attached	✓
Hi-Viz	
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



**PELTOR™**



Product Number	Abbreviated General Description	Packaging
H6A	Low Profile Over-the-Head Beige Earmuff SLC <sup>80</sup> 22dB (Class 4)	1 pair/box, 10 boxes/case
H6B	Low Profile Behind-the-Head Beige Earmuff SLC <sup>80</sup> 22dB (Class 4)	1 pair/box, 10 boxes/case
H6F	Low Profile Folding Beige Earmuff SLC <sup>80</sup> 23dB (Class 4)	1 pair/box, 10 boxes/case
H6P3G	Low Profile Hard Hat Attached Beige Earmuff SLC <sup>80</sup> 22dB (Class 4)	1 pair/box, 10 boxes/case
HY5	Replacement Hygiene Kit 1 Pr Cushions/1 Pr Foam Inserts for H6, H9 and H31 Type Hearing Protectors	1 kit/bag, 20 bags/case



# 3M™ Peltor™ Passive Earmuffs

## Peltor™ H31 Earmuff

This earmuff is ultra light and features orange cups for added visibility. This versatile, over-the-head earmuff has a stainless steel headband that resists bending and warping. The earcups provide optimum comfort with pivot points that tilt and liquid/foam-filled earmuff cushions.

**PELTOR™**

Electrically Insulated (Dielectric)	
Neckband	
Folding Headband	
Hard Hat Attached	✓
Hi-Viz	✓
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



Product Number	Abbreviated General Description	Packaging
H31P3E	Deluxe Hard Hat Attached Orange Earmuff SLC <sup>90</sup> 28dB (Class 5)	1 pair/box, 10 boxes/case
H31P3AF	M-Series Hard Hat Attached Orange Earmuff M-100: SLC <sup>90</sup> 20dB (Class 3)/M-300: SLC <sup>90</sup> 25dB (Class 4) 6 EA	1 pair/box, 6 boxes/case
H31P3BB	H31P3BB Airstream Series Hard Hat Attached Orange Earmuff SLC <sup>90</sup> 23dB (Class 4)	1 pair/box, 1 box/case
HY3	Replacement Hygiene Kit for H31 Type Hearing Protectors	1 kit/bag, 20 bags/case

## Peltor™ PTL™ Earmuff

**PELTOR™**

Push-to-Listen earmuffs allow workers to listen safely without removing their earmuffs. Listeners simply press the button to boost the volume of conversation and other sounds for 30 seconds. Ideal for workers in environments where intermittent ambient listening is required.

Electrically Insulated (Dielectric)	
Neckband	
Folding Headband	
Hard Hat Attached	✓
Hi-Viz	
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



Product Number	Abbreviated General Description	Packaging
H7A-PTL*	PTL Over-the-Head Earmuff SLC <sup>90</sup> 27dB (Class 5)	1 pair/box, 10 boxes/case
H7P3E-PTL*	PTL Hard Hat Attached Earmuff SLC <sup>90</sup> 27dB (Class 5)	1 pair/box, 10 boxes/case

\*Firm order only



# Peltor™ Food Industry Earmuff H9A-02

PELTOR™

Engineered to meet the stringent hygiene demands of the food industry, these comfortable lightweight earmuffs feature a smooth, non-porous headband designed to help prevent food particle accumulation. The lightweight ear cups have washable, replaceable inserts designed to help reduce moisture absorption.

Electrically Insulated (Dielectric)	
Neckband	
Folding Headband	
Hard Hat Attached	
Hi-Viz	
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



Product Number	Abbreviated General Description	Packaging
H9A-02	H9A-02 Food Industry Earmuff SLC <sup>90</sup> 26dB (Class 5)	1 pair/box, 10 boxes/case
HY55	H9A-02 Earmuff Hygiene Replacement Kit (cushions and inserts)	1 kit/bag, 10 bags/case

# Peltor™ Welding Earmuff H505B

PELTOR™

The 3M™ Peltor™ Welding Helmet Earmuff H505B features a low-profile design that fits comfortably under most welding helmets, as well as a semi-soft cup surface that minimises scratch sound transmission. With a two-point suspension for balanced pressure distribution, this advanced earmuff delivers the comfortable protection that professionals need in a wide range of welding environments.

Electrically Insulated (Dielectric)	
Neckband	✓
Folding Headband	
Hard Hat Attached	
Hi-Viz	
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



Product Number	Abbreviated General Description	Packaging
H505B	Welding Earmuff SLC <sup>90</sup> 22dB (Class 4)	1 pair/box, 10 boxes/case
HY505	Hygiene Kit	1 kit/bag, 10 bags/case

# 3M™ Peltor™ Passive Earmuffs

## Peltor™ Bull's Eye Earmuff

This passive range of foldable earmuffs are available in three different colours, military green, black and red. These hearing protectors are designed to provide a moderate to high level of protection that meet the needs of sport shooters and hunters. The bevelled cup increased compatibility with hunting/shooting weapons.

Electrically Insulated (Dielectric)	
Neckband	
Folding Headband	✓
Hard Hat Attached	
Hi-Viz	
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	

SLC<sup>90</sup> 26dB (Class 5)



PELTOR™

Product Number	Abbreviated General Description	Packaging
H515FB-516-RD*	Bull's Eye Red Earmuff	1 pair/box, 20 boxes/case
H515FB-516-GN*	Bull's Eye Green Earmuff	1 pair/box, 20 boxes/case
H515FB-516-SV*	Bull's Eye Black Earmuff	1 pair/box, 20 boxes/case

\*Firm order only

## Peltor™ Premium Earmuff X4 Series

The X-Series earmuffs are 3M's latest advancement in hearing conservation. New technologies in comfort, design and protection all come together in this groundbreaking earmuff line. The X4A utilises a newly designed spacer, specially formulated foam liners and innovative ear cushions to help improve attenuation. This lightweight, lower-profile earmuff helps with compatibility with other personal protective equipment and is designed for protection against moderate-to-high level industrial noise and other loud sounds. It features an electrically insulated wire headband, often referred to as "dielectric".

Electrically Insulated (Dielectric)	✓
Neckband	
Folding Headband	
Hard Hat Attached	✓
Hi-Viz	
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓



PELTOR™

Product Number	Abbreviated General Description	Packaging
X4A	X4A Over The Head Green Premium Earmuff SLC <sup>90</sup> 31dB (Class 5)	1 pair/box, 10 boxes/case
X4P3E	X4P3E Hard Hat Attached Green Premium Earmuff SLC <sup>90</sup> 27dB (Class 5)	1 pair/box, 10 boxes/case
HYX4	X4 Hygiene Kit	1 kit/bag, 20 bags/case



# Peltor™ Premium Earmuff X5 Series

**PELTOR™**

The X5A earmuffs offer 3M's highest SLC (35 dB) which makes them ideal for very high noise situations. The high attenuation delivered by X5A earmuffs is possible as a result of a combination of advanced technologies including: newly designed spacers, specially formulated earcup liners and innovative foam contained in the cushions. It also features an electrically insulated wire headband, often referred to as "dielectric".

Electrically Insulated (Dielectric)	✓
Neckband	
Folding Headband	
Hard Hat Attached	✓
Hi-Viz	
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	✓

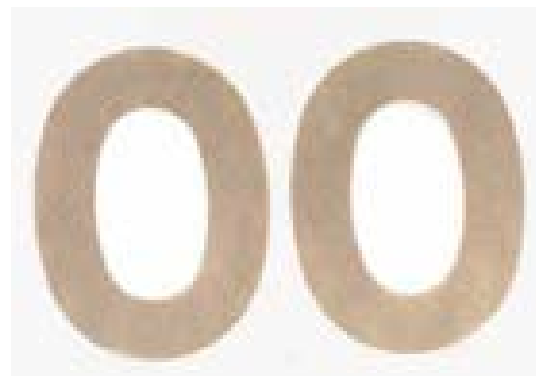


Product Number	Abbreviated General Description	Packaging
X5A	X5A Over The Head Black Premium Earmuff SLC <sup>80</sup> 35dB (Class 5)	1 pair/box, 10 boxes/case
X5P3E	X5P3E Hard Hat Attached Black Premium Earmuff SLC <sup>80</sup> 31dB (Class 5)	1 pair/box, 10 boxes/case
HYX5	X5 Hygiene Kit	1 kit/bag, 20 bags/case

# Peltor™ Hygiene Tear Away Pads

**PELTOR™**

The disposable hygiene pads are an easy way to improve hygiene and comfort. Effective and practical use in dirty and hot environments to keep cushions hygienically clean. Also useful when several persons are using the same hearing protector i.e. visitors earmuffs.



Product Number	Abbreviated General Description	Packaging
HY100A	Hygiene Tear Away Pads	100 pairs/box, 10 boxes/case

# 3M™ Peltor™ Passive Earmuffs

## Peltor™ Kids Earmuff H510AK

PELTOR™

Peltor Kid hearing protectors can attenuate harmful noise levels without completely shutting out other ambient sounds. These muffs are recommended for use by children up to age seven. Peltor Kid comes in two characteristic colours – neon pink and neon green – for high visibility and fun.



Electrically Insulated (Dielectric)	
Neckband	
Folding Headband	
Hard Hat Attached	
Hi-Viz	
Liquid/Foam-Filled Cushions	✓
Hygiene Kit	

SNR 27 dB

Product Number	Abbreviated General Description	Packaging
H510AK-442-GB	Kids Neon Green Earmuff	1 pair/box, 6 boxes/case
H510AK-442-RE	Kids Neon Fink Earmuff	1 pair/box, 6 boxes/case

## 3M™ Earmuff 1426

3M

An entry level earmuff with high level attenuation. Super economical, the over the head design for use with other PPE.



Electrically Insulated (Dielectric)	✓
Neckband	
Folding Headband	
Hard Hat Attached	
Hi-Viz	
Liquid/Foam-Filled Cushions	
Hygiene Kit	

SLC<sup>80</sup> 26dB (Class 5)

Product Number	Abbreviated General Description	Packaging
1426	1426 Economy Earmuff	1 pair/bag, 20 bags/case



# 3M™ Earmuff 1436

Designed for moderate to high noise exposure. The versatile 1436 foldable earmuff offers an economical, lightweight yet durable earmuff. The 1436 provides a high degree of comfort to the wearer at an affordable price.







Electrically Insulated (Dielectric)	✓
Neckband	
Folding Headband	
Hard Hat Attached	
Hi-Viz	
Liquid/Foam-Filled Cushions	
Hygiene Kit	

SLC<sup>®</sup> 27dB (Class 5)

Product Number	Abbreviated General Description	Packaging
1436	1436 Foldable Economy Earmuff	1 pair/bag, 20 bags/case

### \*Peltor Helmet Attachments Guide

Helmet Manufacturer	Helmet Model	Peltor Product Codes	Retrofit Codes	
MSA	Super V-Gard II	P3E	(Z3E)	 Z3E
MSA	V-Gard	P3E	(Z3E)	
Protector	Elite 300	P3E	(Z3E)	 Z3M
Protector	Tuffmaster II	P3E or P3G	(Z3E or Z3G)	
Protector	HC600V	P3G	(Z3G)	 Z3G
Protector	Tuffmaster Lite	P3G	(Z3G)	
Unisafe	Unilite	P3G	(Z3G)	 Z3K
NZ Safety	410	P3M	(Z3M)	
NZ Safety	620V	P3M	(Z3M)	
3M	G2000	P3K	(Z3K)	

3M Peltor hard hat attachments were tested in combination with the following industrial helmets and may give different levels of protection if fitted to different helmets: 3M G22 MSA V-Guard.

Detection

Protection

Validation



# Smart Solutions

## Easy Communications

3M Peltor has a broad selection of communication solutions with a variety of hearing protectors for work groups operating in high-noise environments. When using Peltor communication headsets, you'll hear and communicate effectively while being protected from potentially hazardous noise.

# 3M™ Peltor™ Communication Headsets



## Peltor™ Lite-Com™ III Headsets

The Lite-Com III system delivers high noise attenuation with added two-way communications capability. A radio built into the shell provides effective and effortless short-range two-way communication. The Lite Com III operates on 69 channels in 433MHz band ensuring targeted communication for groups. A built-in active-sound function lets you hear ambient sound; warning signals, machine sounds, conversation, etc. Weak sounds can be amplified, so you hear them better than you would without hearing protectors. Sudden impulse noises at harmful levels are immediately attenuated.

- Designed for people who work in teams or groups where communication is essential
- 69 two way radio channels on the LPD 433 MHz band
- Electronic voice guided menu system
- LCD display to visualise standard and advanced settings
- Separate PTT (push to talk) button for the auxiliary input, where a mobile phone, radio, or other audio source can be connected
- Squelch, VOX and audio input adjustment lets you configure the earmuffs to your personal choice. These settings can then be saved in the pre set buttons
- Unused, Lite-Com III switches off automatically pre-set to conserve batteries

Ambient Listening/Level Dependent	✓
Neckband	✓
Folding Headband	
Headband	✓
Hard Hat Attachment	✓
Listen Only/Lightweight	
Bluetooth® Compatible	
Hygiene Kit	✓



Product Number	Abbreviated General Description	Packaging
MT53H7A430B	Peltor™ Lite-Com III Over The Head Headset SLC <sup>90</sup> 31 dB (Class 5)	1 pair/box
MT53H7B430B	Peltor™ Lite-Com III Behind-The- Head Headset SLC <sup>90</sup> 30dB (Class 5)	1 pair/box
MT53H7P3E430B	Peltor™ Lite-Com III Hard Hat Attached Headset SLC <sup>90</sup> 27dB (Class 5)	1 pair/box
HY79	Replacement Hygiene Kit for Peltor™ Lite-Com III Hearing Protectors	1 kit/bag, 20 bags/case



# Communication Headsets

## Peltor™ Pro-Tac™ II Headsets

PELTOR™

With the Pro-Tac II, you are not shut off from the environment, which can be both dangerous and inconvenient. Level dependent function in stereo lets you hear ambient sound: conversation, machine sounds and warning signals. The control buttons are easily accessible and logically positioned, making it easy to adjust ambient noise.

- Improves communication and safety
- Last setting is stored when switched off
- Headset option with guide-mounted microphone
- Low battery warning signal
- Automatic shut-off after two hours if no function is used
- Battery life is approximately 1000 hours (AA Batteries). Warning signal when power is low, before shut-off
- Audio input jack for external radio
- Operates with 2 AA batteries



Ambient Listening/Level Dependent	✓
Neckband	✓
Folding Headband	✓
Headband	✓
Hard Hat Attachment	✓
Listen Only/Lightweight	
Bluetooth® Compatible	✓
Hygiene Kit	✓

Product Number	Abbreviated General Description	Packaging
MT15H7A2 SV	Peltor™ Pro-tac™ II Over The Head Headset SLC <sup>80</sup> 30dB (Class 5)	1 pair/box
MT15H7B2 SV	Peltor™ Pro-tac™ II Behind-The- Head Headset SLC <sup>80</sup> 29dB (Class 5)	1 pair/box
MT15H7P3E2 SV	Peltor™ Pro-tac™ II Hard Hat Attached Headset SLC <sup>80</sup> 29dB (Class 5)	1 pair/box
HY79	Replacement Hygiene Kit for Pro-tac™ Hearing Protectors	1 kit/bag, 20 bags/case



## Peltor™ SportTac™ Headsets

**PELTOR™**

SportTac™ earmuffs are developed specifically for hunting and sports shooting. The smooth, level dependent function eliminates abrupt sound cut-off. They protect against harmful impulse noises while letting in, and even amplifying, ambient sounds. Interchangeable shells make it easy to change colour.

- Equipped with automatic shut-off function
- Collapsible design for easy storage
- Input jack, allows you to connect to selected 2-way radios or other electronic audio devices
- Angled speakers for better direction perception
- Electronics on the outside protected from sweat
- Water resistant exterior
- Battery life 600 hr (AAA Batteries 1.5V)



Ambient Listening/Level Dependent	✓
Neckband	
Folding Headband	✓
Headband	
Hard Hat Attachment	
Listen Only/Lightweight	
Bluetooth® Compatible	
Hygiene Kit	✓

Product Number	Abbreviated General Description	Packaging
MT16H210F-478-GN	Peltor™ SportTac™ Foldable Headband Hunting Orange Shells incl SLC <sup>80</sup> 24dB (Class 4)	1 pair/box
MT16H210F-478-RD	Peltor™ SportTac™ Foldable Headband Sport Shooting Black Shells incl SLC <sup>80</sup> 24dB (Class 4)	1 pair/box
HY21	Replacement Hygiene Kit for SportTac™ Hearing Protectors	1 kit/bag, 20 bags/case

# Communication Headsets

## Peltor™ Worktunes™ Plus Radio Headsets

PELTOR™

You can protect your hearing effectively and at the same time enjoy listening to the radio while working. You can connect to a cell phone or some communication radios, making you accessible wherever you are.

- The AM/FM radio provides hearing protection with music while you work
- The level dependent function allows you to hear sounds, warning signals, machinery and conversations. Sudden impulse noise at harmful levels are immediately attenuated
- Easy-to-handle volume control knobs for radio and level dependent function
- A short, flexible antenna provides excellent reception
- Switches automatically from stereo to mono for the best reception in the event of a weak signal
- AM/FM switch to choose your radio band



Ambient Listening/Level Dependent	
Neckband	
Folding Headband	
Headband	✓
Hard Hat Attachment	✓
Listen Only/Lightweight	
Bluetooth® Compatible	
Hygiene Kit	✓

Product Number	Abbreviated General Description	Packaging
M2RX7A 290	Peltor™ Worktunes™ Plus Over The Head Headset SLC <sup>80</sup> 30dB (Class 5)	1 pair/box
M2RX7P3E	Peltor™ Worktunes™ Plus Hard Hat Attached Headset SLC <sup>80</sup> 29dB (Class 5)	1 pair/box
HY79	Replacement Hygiene Kit for Worktunes Plus Hearing Protectors	1 kit/bag, 20 bags/case

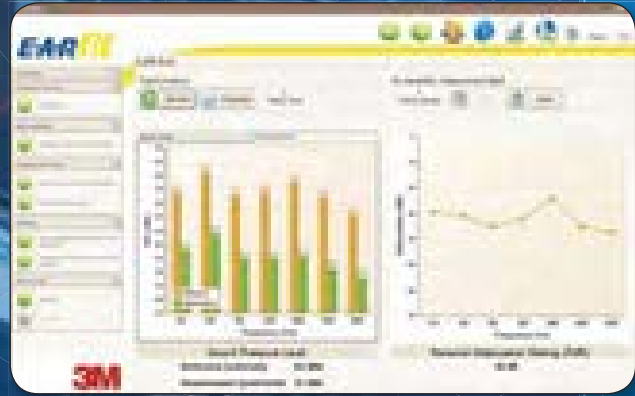
Detection



Protection



Validation



# Fit Testing Made Easy

The 3M™ E-A-Rfit™ Validation System measures the level of employee hearing protection by generating a personal attenuation rating (PAR) in just 10 seconds per ear. This simple, in-the-field test system can enhance your hearing conservation program by assisting with the selection of appropriate protectors for workers and their environments. It also serves as a tool for training proper insertion techniques. Make E-A-Rfit testing a key part of your comprehensive hearing protection program.



# Validation Products



## 3M™ E-A-Rfit™ Validation System

E-A-Rfit is a comprehensive fit validation system to test the actual protection workers receive from their hearing protectors. For more information on this service, please contact your 3M Personal Safety Sales Representative. NOTE: If your customers wish to have someone at their company trained to become a certified E-A-Rfit Technician so they can service their own employees, please contact a 3M Personal Safety Sales Representative for more information.

These 13 earplug styles cover fit validation testing for over 75 different 3M earplug products.



Product Number	Abbreviated General Description	Packaging
393-1000	E-A-Rfit Kit – Validation System includes the Software, Speaker and Impact Resistant Carrying Case	1 kit/case
393-2000-50	E-A-Rsoft Yellow Neons Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2001-50	UltraFit Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2002-50	Push-Ins Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2003-50	Classic Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2004-50	E-A-Rsoft FX Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2006-50	TaperFit Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2007-50	Classic Platinum Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2008-50	Express Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2010-50	1100 Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2011-50	Tri-Flange Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2012-50	Skull Screws Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2014-50	E-A-Rsoft Yellow Neons Large Probed Test Plugs	10 pairs/bag, 5 bags/case
393-2015-50	E-A-R Push Ins with Grip Rings Probed Test Plugs	10 pairs/bag, 5 bags/case









# Attenuation Data

## **FILTON® X5A Earmuff**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	123.2	25.3	35.8	43.8	39.7	41.5	40.7
Standard Deviation dB	4.0	3.4	4.5	3.0	3.8	3.5	3.9

SLC<sup>80</sup>: 35dB Class 5

## **FILTON® X5P3E Earmuff**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	20.5	23.3	32.4	34.4	37.0	36.3	39.3
Standard Deviation dB	4.6	5.6	5.0	4.4	4.4	4.6	3.9

SLC<sup>80</sup>: 31dB Class 5

## **FILTON® H31P3E**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	10.9	18.2	30.1	32.0	34.4	37.1	38.1
Standard Deviation dB	3.7	3.5	3.9	4.6	3.4	3.0	2.7

SLC<sup>80</sup>: 28dB Class 5

## **FILTON® 3M™ Economy 1426 Earmuff (worn over head)**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	12.7	17.3	27.7	36.9	36.3	38.2	32.3
Standard Deviation dB	3.2	2.7	3.6	3.3	2.4	3.8	4.6

SLC<sup>80</sup>: 26dB Class 5

## **FILTON® 3M™ Economy 1436 Foldable Earmuff**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	12.6	19.5	30.6	36.6	33.1	40.7	38.0
Standard Deviation dB	2.8	3.0	3.6	3.9	2.7	2.3	1.9

SLC<sup>80</sup>: 27dB Class 5

## **FILTON® Lite-Com III Headband**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	13.4	18.6	24.8	30.6	29.5	36.7	37.9
Standard Deviation dB	3.9	3.7	6.2	4.0	5.9	5.1	5.1

SLC<sup>80</sup>: 25dB Class 4

## **FILTON® Lite-Com III Helmet Attachment**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	8.5	14.2	19.9	26.1	25.9	32.2	29.3
Standard Deviation dB	4.9	5.3	6.5	3.3	5.7	5.7	7.9

SLC<sup>80</sup>: 20dB Class 3

## **FILTON® Tactical XP – Headband & Folding Headband**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	13.6	18.2	29.4	32.0	35.3	35.8	37.9
Standard Deviation dB	5.4	4.5	4.2	3.3	2.9	3.1	5.6

SLC<sup>80</sup>: 28dB Class 5

## **FILTON® Pro Tac II Headband**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	16.2	21.7	29.7	34.0	35.3	34.8	37.5
Standard Deviation dB	4.9	4.9	4.3	2.4	2.9	3.0	3.0

SLC<sup>80</sup>: 30dB Class 5

## **FILTON® Pro Tac II Neckband**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	15.9	21.2	28.5	32.9	35.4	33.2	35.5
Standard Deviation dB	3.8	3.5	4.9	4.8	2.9	2.0	3.3

SLC<sup>80</sup>: 29dB Class 5

## **FILTON® SportTac Shooting & Hunting Folding Headband**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	10.5	15.0	23.9	25.3	30.9	38.7	40.2
Standard Deviation dB	3.0	4.3	3.9	4.1	4.2	3.2	6.4

SLC<sup>80</sup>: 24dB Class 4

## **FILTON® H7 Push to Listen Headband & Hi-Viz Headband**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	15.1	22.4	30.9	36.8	35.8	34.8	35.2
Standard Deviation dB	4.3	2.9	4.5	4.3	3.8	3.6	3.8

SLC<sup>80</sup>: 30dB Class 5

## **FILTON® Worktunes Plus Headband**

Frequency	125	250	500	1000	2000	4000	8000
Mean Attenuation dB	14.8	21.9	29.2	33.2	31.2	37.8	37.5
Standard Deviation dB	3.5	4.4	4.7	3.3	4.0	5.9	5.3

SLC<sup>80</sup>: 28dB Class 5

# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor™ Communications



3M E-A-R™ Peltor™ Hearing



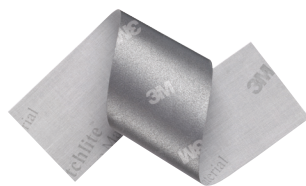
Eye Protection



Head & Face Protection



Speedglas™



Scotchlite™



Sorbents & Spill Management



Vending Solutions

# 3M™ Eye, Head & Face Protection



Engineered  
for Safety  
Designed for Style





# Eye Protection by 3M

## Style

Style is a critical factor when it comes to raising the acceptance of the user to wear personal protective equipment (PPE). 3M's range of eyewear gives you a variety of modern and stylish products from which to choose.

## Protection

The 3M range of eyewear offers high quality optics. Most of the 3M glasses and goggles offer reliable UV protection and all are tested and comply with AS/NZS1337.1

## Comfort

Many of our products come with adjustable features and soft materials in points of contact in order to improve fit and comfort to accommodate different face sizes and shapes.

## Compatibility

Eye protection often needs to be worn in conjunction with other protective equipment and it is essential that comfort and fit with other PPE is maintained. Most of the eyewear and goggle ranges can be used in combination with respiratory and hearing protection by 3M. Compatibility with other PPE will be subject to a number of variable factors which requires the employer and end user to determine an appropriate selection depending on individual needs.



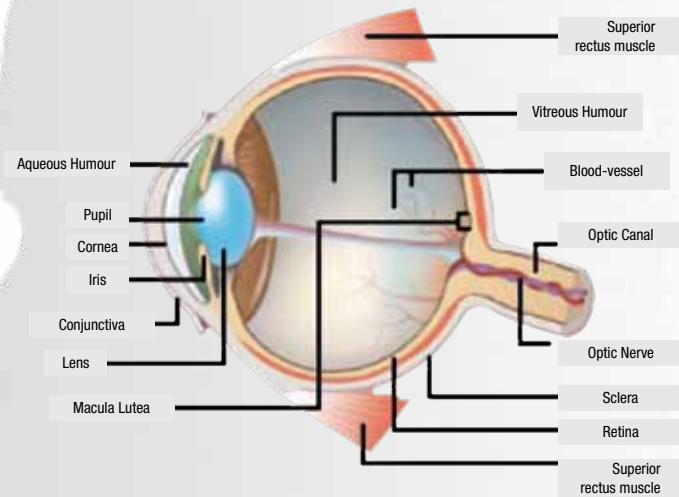
# Human Eye

**The Cornea** in direct contact with an external environment, plays an essential part in the transmission of light rays. There are more nerve endings in the cornea than anywhere else in the body.

**The Pupil** (light controller), situated in the middle of the iris, works like the diaphragm of a camera. Its diameter changes in accordance with the light levels.

**The Lens** allows focusing (near vision, far vision) thanks to a control muscle. With age this muscle loses power and impacts near vision (presbyopia). The lens can lose its transparency due to exposure to IR (infrared light) and UV (ultraviolet light), resulting in loss of vision (cataract).

**The Retina** is where all light beams converge; it transmits all information through the optic nerve to the brain in order to create your vision. Burned retina cells are lost forever which causes irreversible loss of vision.



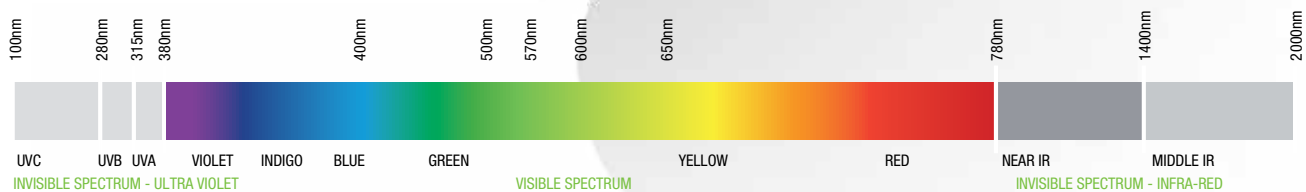
## Industrial hazards for the eyes:

- **Mechanical hazards:** dust, shock, solid particles.
- **Thermal hazards:** hot liquid, molten splash, flames.
- **Chemical or Biological hazards:** splashes of acids, solvents, alkalis, infected blood.
- **Radiation hazards:** ultraviolet, infrared, visible light, laser.
- **Electrical hazards:** direct contact, short-circuit electric arc.

## Facts on eye damage:

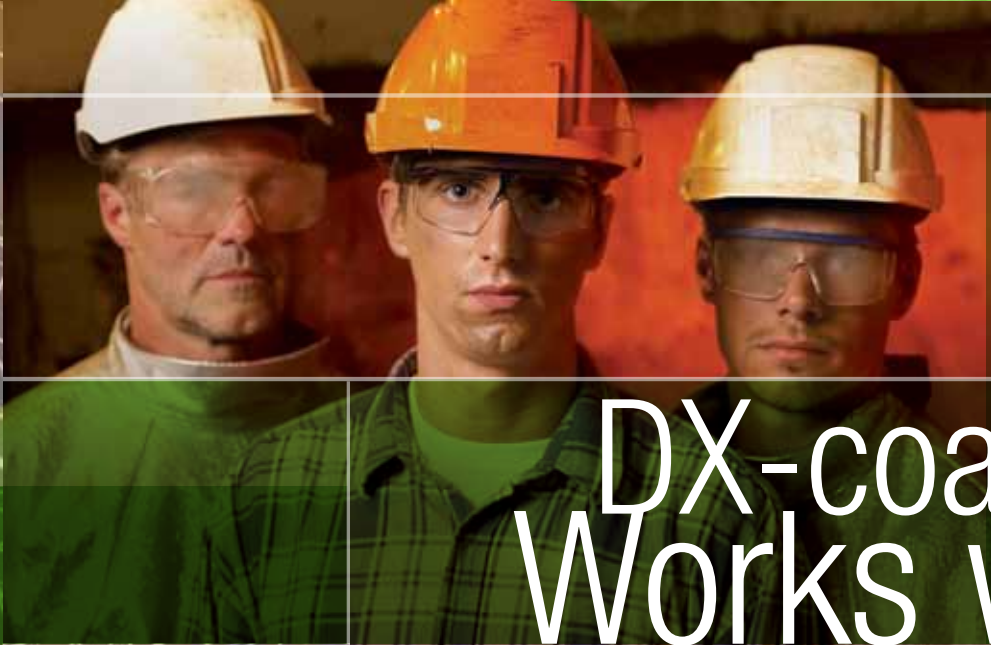
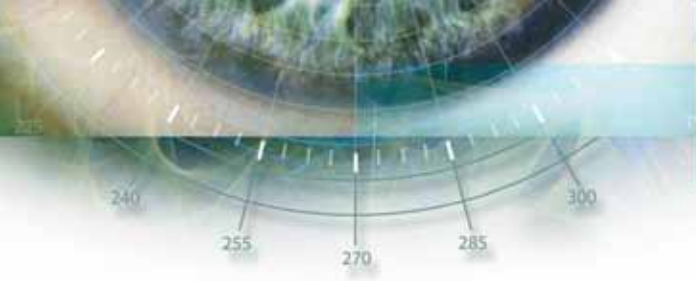
Every day worldwide more than 600 workers suffer from eye injury simply because they do not wear protective eyewear.

Source: BLS

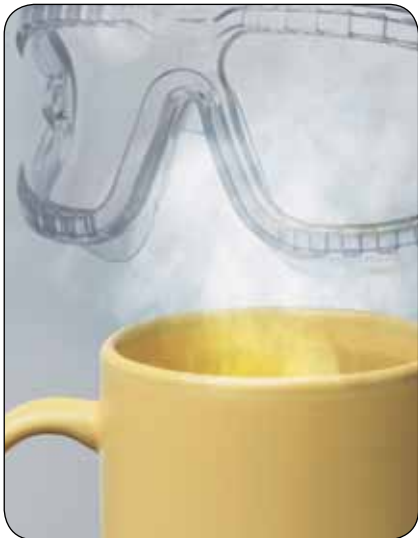


## Potential Effects from Exposure to Light and other Radiation

	UVC 100 to 280nm	UVB 280 to 315nm	UVA 315 to 380nm	BLUE LIGHT 380 to 480nm	VISIBLE LIGHT 380 to 780nm	NEAR IR 780 to 1400nm	MIDDLE IR 1400 to 2000nm
<b>Cornea</b>	Conjunctivitis Partial Blindness	Conjunctivitis Partial Blindness	Conjunctivitis Partial Blindness				
<b>Lens</b>	Conjunctivitis	Cataract Premature Ageing	Cataract Premature Ageing			Cataract	Conjunctivitis Partial Blindness
<b>Retina</b>	Conjunctivitis			Partial Blindness Photoreinitis	Vision Problems Discontinuous Vision	Retinitis Pigmentosa	



# DX-coating Works where other coatings fail



Our DX™ coating, used on eyewear to protect from fogging and scratches is unique. It is a state-of-the art combination: abrasion resistant, anti-mist, anti-static and resists chemical attack. These are four key reasons why DX coating provides all day protection.

The patented DX coating results in lenses that maintain their clarity and hence provide vital eye protection for longer periods.

A very simple test will convince you of the superiority of our in-house developed DX coating. Make a pot of really hot tea or coffee. Hold the lenses over the steaming brew. If you are very quick you might see a thin film spreading rapidly across the surface and then disappear. The film is almost impossible to detect. After the film has formed you will see no further change on the lens. It is completely transparent and offers perfect vision. Indeed if you hold the lenses long enough over the brew, drips will form along the lower edge.



# Protective Eyewear

## Protection all the way

We believe that health and safety are the priorities in any working environment, and that greater comfort and modern styles improve worker compliance with regulatory requirements for protective eyewear. Therefore, we take care in adding comfort features where they are needed most, such as heavy contact areas like nose bridges and temple tips. The materials we choose to provide better comfort are designed to be durable to last and soft to the touch. We are also continually working on new coatings, new materials and new designs to bring the latest technology, innovation and fashion into our protective eyewear line.

## What contributes to eye injuries at work?

- **Not wearing eye protection.** Nearly three out of every five workers injured are not wearing eye protection at the time of the accident.
- **Wearing the wrong kind of eye protection for the job.** 40% of the injured workers were wearing some form of eye protection when the accident occurred. However, these workers were most likely to be wearing protective eyeglasses with no side shields.

## What causes eye injuries?

- **Flying particles.** Almost 70% of accidents resulted from flying or falling objects or sparks striking the eye. Injured workers estimated that nearly three-fifths of the objects were smaller than a pinhead. Contact with chemicals caused one-fifth of the injuries.

## Where do accidents occur most often?

- **Craftwork.** Potential eye hazards can be found in nearly every industry, more than 40% of injuries occurred among craft workers, like mechanics, repairers, carpenters and plumbers.
- **Industrial equipment operation.** Over a third of the injured workers were operators, such as assemblers, sanders, and grinding machine operators. Almost half of these injured workers were employed in manufacturing.

## How can eye injuries be prevented?

- **Always wear effective eye protection.** AS/NZ standards require that employers provide workers with suitable eye protection. To be effective, the eyewear must be of the appropriate type for the hazard encountered and properly fitted.
- **Better training and education.** Workers injured while not wearing protective eyewear most often said they believed it was not required by the situation. Even though the vast majority of employers furnished eye protection at no cost to employees, about 40% of the workers received no information on where and what kind of eyewear should be used.
- **Maintenance.** Eye protection devices must be properly maintained. Scratched and dirty devices reduce vision, cause glare and may contribute to accidents. Scratched or damaged eyewear should be replaced immediately.

Source for All Statistical Claims: U.S. Bureau of Labor Statistics

Eyewear injuries happen when you least expect them.



Be prepared.



# Polycarbonate Lens Selection Guide

This Polycarbonate Lens Selection Guide will help you understand the need for different color lenses and lens types for industrial applications. It will also help you determine what type of lens is best for your application and environment. There are many lens options other than clear, gray and mirror. When choosing a lens, the basic “rule of thumb” is to consider color opposites. Examples of these opposites are shown in the chart below in columns one and two.

Lens Color/ Type	Color of Light Reduced or Blocked*	Lens Properties/Use	Percent of Visible Light Passing through the Lens (approx.)	Suggested Applications/Environments
Clear	None	Maximum amount of light reaches the eye for good vision and acuity.	85%+	General everyday eye protection.
Gray, Brown, Bronze	All	Reduces brightness and glare from the sun.	10%-25%	Mainly for outdoor daytime use as in typical sunglass use.
Mirror & Colored Mirror	All	Reduces brightness and glare from the sun.	10%-25%	Mainly for outdoor daytime use as in typical sunglass use.
Indoor/Outdoor	All	Reduces brightness and glare when working both indoors and outdoors.	50%	For tasks requiring frequent movement indoor to/from outdoor. Loading docks, forklift drivers, construction or similar jobs.
Photochromic	All	Reduces brightness and glare from the sun and indoor lighting.	Varies from 20% to 80%	Lens darkens when outside and lightens when inside. Do not use for frequent indoor to/from outdoor movement.
Polarized	All	Reduces brightness and glare from the sun.	15%	Exceptional for reducing reflective glare. Mainly for outdoor use.
Yellow/Amber	Purple and Blue	Increases contrast, reduces haze from blue lighting, excellent UV protection.	85%-92%	Good for inspection tasks and hazy, overcast or foggy days. Never use for night driving.

\* All polycarbonate safety lenses absorb 99.9% ultraviolet (UV) light.



Clear



Gray, Brown, Bronze



Mirror & Colored Mirror



Indoor/Outdoor



Photochromic



Yellow/Amber



# 3M Safety Glasses



## 3M™ Maxim™ GT Series

### Features and Benefits:

#### Style

- + Contemporary stylish safety inspired design
- + Choice of two lens styles

#### Protection

- + Wide coverage wrap around design protects against flying particulates
- + Elastomeric brow guard to inhibit dust from entering eyes
- + Polycarbonate lens protects against UV and impact at extreme temperatures
- + 3M™ DX™ anti-fog lenses
- + AS/NZS1337.1 Medium Impact Rating



#### Comfort

- + Comfortable spatula temples with soft tips adjustable nose bridge
- + Brow guard provides soft seal of users face

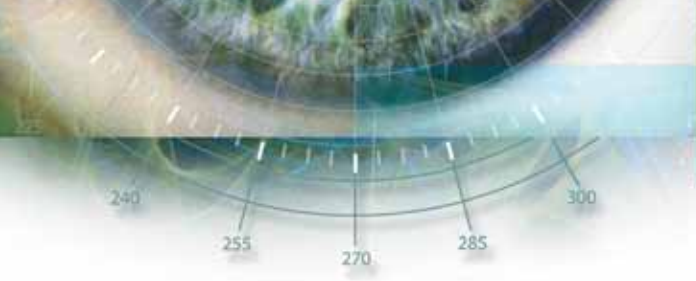
#### Packaging

- + 1 pair/bag, 10 bags/case



Lens	Product Code	3M Description	Packaging
	14246-00000-100AS	3M™ Maxim™ GT Series Clear Anti-Fog Lens	1 pair/bag, 10 bags/case
	14247-00000-100AS	3M™ Maxim™ GT Series Clear Anti-Fog Lens	1 pair/bag, 10 bags/case





# 3M™ Privo™ Series

**Features and Benefits:**

**Style**

- + European street wear styling
- + Orange accent temple tips
- + Choice of two lens styles

**Protection**

- + Polycarbonate lens protects against UV and impact at extreme temperatures
- + Anti-fog lenses
- + AS/NZS1337.1 Medium Impact Rating

**Comfort**

- + Extremely lightweight
- + Fits close to wearer's face

**Packaging**

- + 1 pair/bag, 10 bags/case



Lens	Product Code	3M Description	Pacakaging
	12261-00000-100AS	3M™ Privo™ Series Clear Anti-Fog Lens	1 pair/bag, 10 bags/case
	12262-00000-100AS	3M™ Privo™ Series Grey Anti-Fog Lens	1 pair/bag, 10 bags/case



# 3M Safety Glasses



## 3M™ BX™ Series

### Features and Benefits:

#### Style

- + Stylish and modern design

#### Protection

- + Special DX™ anti-fog coating reduces fogging and ensures clearer vision
- + Excellent protection against flying particles
- + AS/NZS1337.1 Medium Impact Rating

#### Comfort

- + Soft tip temples to improve comfort
- + Soft, universal-fit nose bridge
- + Adjustable length temples with pantoscopic system (3 angles for custom fit)

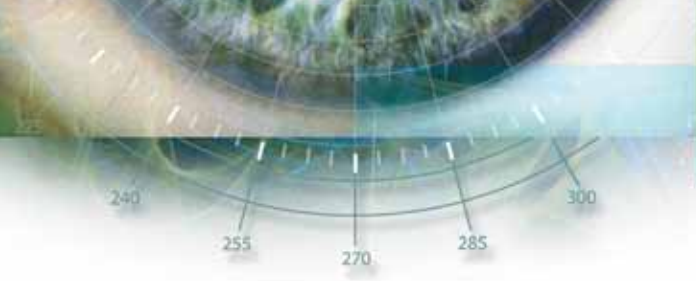


#### Packaging

- + 1 pair/bag, 10 bags/case

Lens	Product Code	3M Description	Packaging
	10416-00000	3M™ BX™ Ocean Blue Frame/Light Amber Anti-Fog Lens	1 pair/bag, 10 bags/case
	10412-00000	3M™ BX™ Ocean Blue Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case
	10417-00000	3M™ BX™ Ocean Blue Frame/Grey Anti-Fog Lens	1 pair/bag, 10 bags/case





# 3M™ Lexa™ Series

**Features and Benefits:**

**Style**

- + Choice of frame colours
- + Available in two lens sizes

**Protection**

- + High impact nylon frame
- + Durable polycarbonate lens
- + Unique aspheric lens follows facial outline to enhance protective coverage
- + Lens absorbs greater than 99% UV
- + DX™ anti-fog, hard coating for good resistance to fogging, chemical attack, scratching and static
- + AS/NZS1337.1 Medium Impact Rating

**Comfort**

- + Temples adjust to four different lengths for better fit
- + Lenses can adjust to three different angles for a customised fit
- + Adjustable nose bridge design is soft and pliable so wearers can shape it specifically for their noses



**Packaging**

- + 1 pair/bag, 10 bags/case

Lens	Product Code	3M Description	Pacakaging
	15324-10000	3M™ Lexa™ - Medium Size Black Frame/Grey Anti-Fog Lens	1 pair/bag, 10 bags/case
	15320-10000	3M™ Lexa™ - Medium Size Black Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case
	15300-10000	3M™ Lexa™ - Large Size Black Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case
	15321-10000	3M™ Lexa™ - Medium Size Blue Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case



# 3M Safety Glasses



## 3M™ 2740 Series

### Features and Benefits:

#### Style

- + Sporty design
- + Choice of three lens colours – clear, smoke and amber

#### Protection

- + AS/NZS1337.1 Medium Impact Rating
- + Lens provides anti-fog and anti-scratch resistance
- + Polycarbonate lens absorbs 99.9% UV light
- + Wraparound coverage

#### Comfort

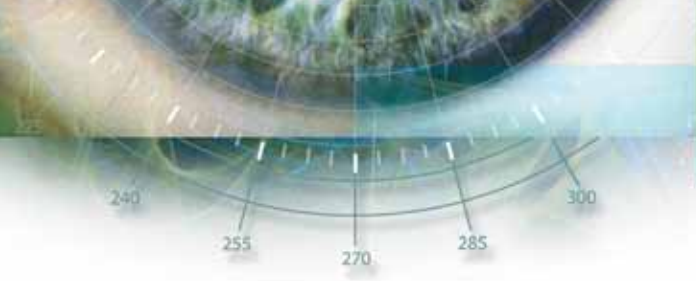
- + Adjustable temple lengths – four positions
- + Soft temple tips reduce pressure around the ears

#### Packaging

- + 1 pair/bag, 10 bags/case



Lens	Product Code	3M Description	Packaging
	2740-AS	3M™ 2740 Blue Temples/Clear Anti-Fog, Anti-Scratch Lens * Only available in NZ	1 pair/bag, 10 bags/case
	2741-AS	3M™ 2741 Blue Temples/Smoke Anti-Fog, Anti-Scratch Lens * Only available in NZ	1 pair/bag, 10 bags/case
	2742-AS	3M™ 2742 Blue Temples/Amber Anti-Fog, Anti-Scratch Lens * Only available in NZ	1 pair/bag, 10 bags/case



# 3M™ SX™ 2000 Series

**Features and Benefits:**

**Style**

- + Sports inspired styling

**Protection**

- + AS/NZS1337.1 Medium Impact Rating
- + Lens features DX™ anti-fog, hard coating to provide resistance to fogging, scratching, chemical attack and static
- + Polycarbonate lens absorbs 99.9% UV light
- + Wraparound coverage

**Comfort**

- + Adjustable arms for comfortable and correct fit
- + Secure tips ensure firm hold around ears
- + Lightweight for comfort

**Packaging**

- + 1 pair/bag, 10 bags/case



Lens	Product Code	3M Description	Packaging
	10425-00000	3M™ SX™ 2000 Series Clear Anti Fog	1 pair/bag, 10 bags/case
	10425-00000	3M™ SX™ 2000 Series Grey Anti Fog Grey Anti Fog	1 pair/bag, 10 bags/case



# 3M Safety Glasses



## 3M™ Virtua™ V4 Series

### Features and Benefits:

#### Style

- + Sleek wrap around design
- + Choice of two lens styles

#### Protection

- + Polycarbonate lens protects against UV and impact at extreme temperatures
- + Anti-fog lenses
- + AS/NZS1337.1 Medium Impact Rating



#### Comfort

- + Soft dual injected temples

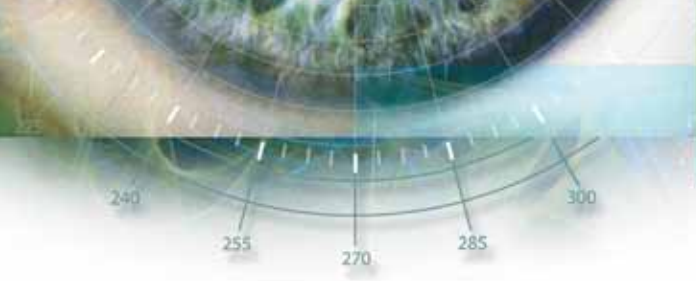
#### Packaging

- + 1 pair/bag, 10 bags/case



Lens	Product Code	3M Description	Packaging
	11672-00000-100AS	3M™ Virtua™ V4 Series Clear Anti Fog	1 pair/bag, 10 bags/case
	11673-00000-100AS	3M™ Virtua™ V4 Series Grey Anti Fog	1 pair/bag, 10 bags/case





# 3M™ Virtua™ AP Series

## Features and Benefits:

### Style

- + Sleek unisex style
- + A selection of "task-specific" lens tints

### Protection

- + Integral sideshields and brow protection
- + Impact resistant polycarbonate lenses absorb 99.9% UV rays
- + Anti-fog & Hard coat lenses
- + AS/NZS1337.1 Medium Impact Rating

### Comfort

- + Lightweight frame
- + High-wrap lens

### Packaging

- + 1 pair/bag, 10 bags/case



Lens	Product Code	3M Description	Packaging
	11818-00000-100AS	3M™ Virtua™ AP Series Clear Anti-Fog Lens	1 pair/bag, 10 bags/case
	11815-00000-100AS	3M™ Virtua™ AP Series Grey Hard Coat Lens	1 pair/bag, 10 bags/case
	11817-00000-100AS	3M™ Virtua™ AP Series Amber Hard Coat Lens	1 pair/bag, 10 bags/case
	11847-00000-100AS	3M™ Virtua™ AP Series Mirror Hard Coat Lens	1 pair/bag, 10 bags/case





# 3M Safety Glasses



## 3M™ Virtua™ Series

### Features and Benefits:

#### Style

- + Popular unisex styling

#### Protection

- + Wrap-around lens provides superior protection and unobstructed view
- + Polycarbonate lens provides impact protection and blocks more than 99% UV
- + AS/NZS1337.1 Medium Impact Rating
- + Available in hard-coat or anti-fog lens




#### Comfort

- + Universal nose bridge
- + Lightweight design for wearer comfort

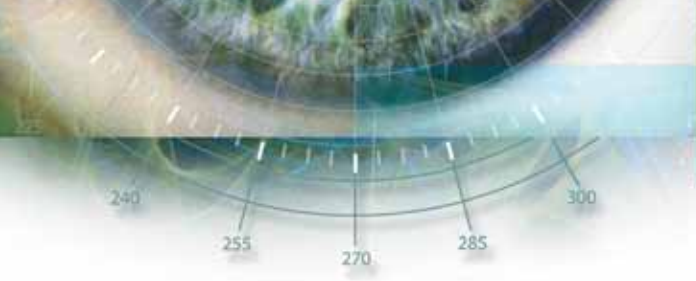
#### Packaging

- + 1 pair/bag, 10 bags/case



Lens	Product Code	3M Description	Packaging
	10419-00000	3M™ Virtua™ Series Clear Hard Coat Lens	1 pair/bag, 10 bags/case
	10421-00000	3M™ Virtua™ Series Clear Frame/Clear Hard Coat Lens	1 pair/bag, 10 bags/case
	10422-00000	3M™ Virtua™ Series Clear Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case





# 3M™ 2700 Series

## Features and Benefits:

### Protection

- + Protection against UV radiation
- + 2720 has anti-mist coating to help reduce lens fogging, particularly during physical work or when wearing half masks.
- + 2720 has anti-scratch coating for increased durability and improved vision.
- + Slim nose bridge and flat temples for improved compatibility with other PPE
- + AS/NZS1337.1 Medium Impact Rating



### Comfort

- + Lightweight and comfortable
- + 2700 model can be worn over most prescription spectacles



### Packaging

- + 1 pair/bag, 10 bags/case

Lens	Product Code	3M Description	Packaging
	2700-AS	3M™ 2700 Overglasses Clear Frame/Clear Lens	1 pair/bag, 20 bags/case
	2720-AS	3M™ 2720 Blue Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case
	2721-AS	3M™ 2721 Blue Frame/Grey Anti-Fog Lens(Only available in NZ)	1 pair/bag, 10 bags/case
	2722-AS	3M™ 2722 Blue Frame/Amber Anti-Fog Lens (Only available in NZ)	1 pair/bag, 10 bags/case



# 3M Safety Glasses



## 3M™ Photochromic

### Features and Benefits:

#### Style

- + Sleek wrap around design that incorporates a stylish carbon fibre pattern

#### Protection

- + Tough polycarbonate lenses absorb greater than 99% UV
- + Abrasion resistant hard coat extends lens life
- + Frame's moulded supports prevent lenses from being dislodged
- + Durable frame with nylon brow and magnesium alloy temples
- + AS/NZS1337.1 Medium Impact Rating

#### Comfort

- + Spring-hinged temples for narrow/wide fit
- + Soft, adjustable nose bridge for all day comfort

#### Packaging

- + 5 pairs/box, 5 boxes/case
- + All Photochromic products come with a microfibre bag and lanyard




#### Be Smart with Photochromic

Safety directors should assess their particular workplace and make all Photochromic wearers aware of the time required for the lens transition. Special care should be taken when moving from outdoors to indoors. Outdoor temperatures may affect lens transition time.

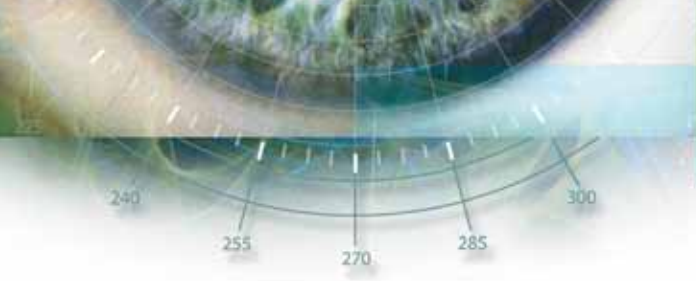
**CHANGES FROM DARK TO CLEAR IN 35 SECONDS**  
Clear state allows 84% light transmission



**CHANGES FROM CLEAR TO DARK IN 8 SECONDS**  
Reduces sun glare allowing just 22% light transmission

Lens	Product Code	3M Description	Packaging
	10423-00000	3M™ Photochromic Black Frame/UV Reactive Hard Coat Lens	5 pairs/box, 5 boxes/case





# 3M™ Light Vision™ II Series

## Features and Benefits:

### Protection

- + Wide coverage wrap around design protects against flying particulates
- + Polycarbonate lens protects against UV and impact at extreme temperatures
- + 3M™ DX™ anti-fog lenses
- + AS/NZS1337.1 Medium Impact Rating

### Comfort

- + Frame has rubber temples and rubber nose pads for extra comfort

### Convenience

- + Dual hands-free temple lights swivel/adjust for bright directional beams
- + LED lights have a long battery life of up to 50 hours

### Packaging

- + 1 pair/bag, 10 bags/case
- + All Light Vision II products come with a microfibre bag and lanyard



Lens	Product Code	3M Description	Packaging
	10425-00000	3M™ Light Vision™ II Series Grey Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case

# 3M Safety Goggles



## 3M™ Virtua™ Sport CCS Series

### Features and Benefits:

#### Style

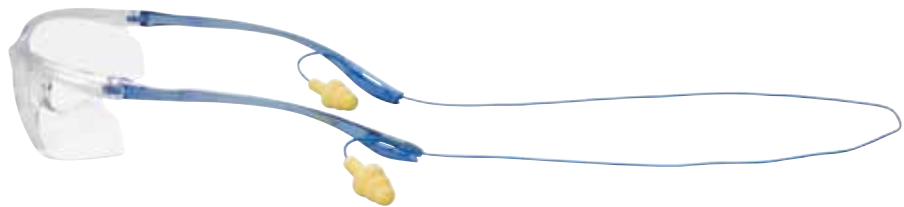
- + Merges outstanding style, protection and affordability with convenient access to hearing protection when it's needed

#### Protection

- + AS/NZS1337.1 Medium Impact Rating
- + Comes with E-A-R™ Ultrafit™ Reusable earplug SLC80: 18db (Class 3)

#### Convenience

- + Brings eye and hearing protection together in your safety program
- + Unique temple design controls and holds the cord of the earplug to keep it securely in place and untangled while in use CCS feature allows the corded earplugs to dual as a lanyard



#### Packaging

- + 1 pair/bag, 10 bags/case

Lens	Product Code	3M Description	Packaging
	11796-00000-100AS	3M™ Virtua™ Sport CCS Series Clear Anti Fog	1 pair/bag, 10 bags/case
	11798-00000-100AS	3M™ Virtua™ Sport CCS Series Grey Anti Fog	1 pair/bag, 10 bags/case



# 3M Safety Goggles



## 3M™ Maxim™ 2x2 Series

### Protection

- + Dual lens design enhances sightline
- + Excellent orbital eye coverage and wide field of vision
- + Air seal protects and absorbs impact
- + DX™ anti-fog lenses
- + Tough polycarbonate lenses absorb greater than 99% UV
- + AS/NZS1337.1 Medium Impact Rating when used as glasses with arms attached. Low Impact Rating when used as goggles with strap attached.



### Comfort

- + Elastic headband for comfortable, secure fit

### Packaging

- + Polybag, 1 pair/bag, 10 bags/case



Lens	Product Code	3M Description	Packaging
	40686-00000	3M™ Maxim™ 2x2 Goggles Black Frame/Clear Anti-Fog Lens	Polybag, 10 pairs/box, 10 boxes/case
	40687-00000	3M™ Maxim™ 2x2 Goggles Black Frame/Grey Anti-Fog Lens	Polybag, 10 pairs/box, 10 boxes/case

# 3M Safety Goggles



## 3M™ Fectoggle™ Gogglegear™ Series

### Fectoggle™ Dust Gogglegear

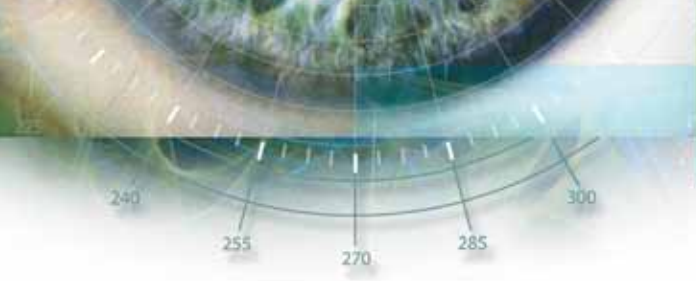
- + Lightweight design for greater comfort
- + Unisex design
- + Secure elastic headband
- + Durable polycarbonate lens with DX™ anti-fog, hard coating
- + Extended viewing range without distortion
- + Top and bottom vent channels
- + Soft foam seals out harmful dust and particulates
- + AS/NZS1337.1 Medium Impact Rating



### Packaging

- + 1 pair/bag, 10 bags/case

Lens	Product Code	3M Description	Packaging
	16412-00000-100AS	3M™ Fectoggle™ Gogglegear™ Series	1 pair/bag, 10 bags/case




## 3M™ Lexa™ Gogglegear™ Series

### Lexa Splash Gogglegear

- + Frame's lightweight design weighs just 5.1 grams
- + Unisex design
- + Secure elastic headband
- + Soft PVC shroud wraps around the lens for a protective seal
- + Durable polycarbonate lens construction with DX™ anti-fog, hard coating
- + Extended viewing range without distortion
- + Top and bottom vent channels improve air flow to reduce fogging
- + AS/NZS1337.1 Medium Impact Rating



Lens	Product Code	3M Description	Packaging
	16645-00000-100AS	3M™ Lexa™ Splash Gogglegear Clear PVC Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case



# 3M Safety Goggles



## 3M™ Fahrenheit™ Series

### Features and Benefits:

#### Style

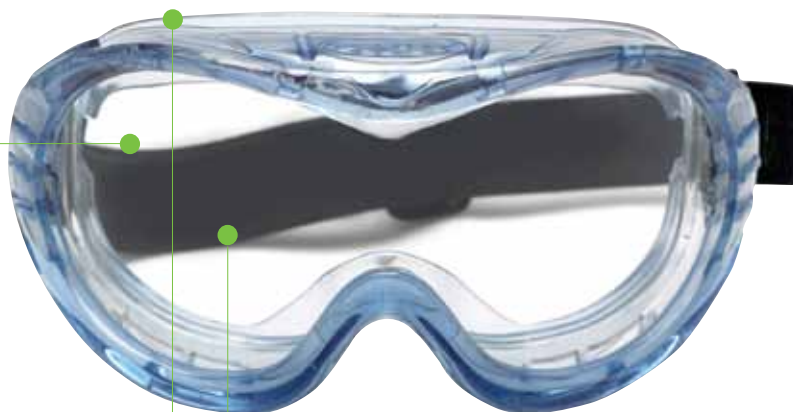
- + Modern, slim-line and lightweight design for an excellent fit.

#### Protection

- + Aerodynamic shape with cylindrical lens for 180° of distortion-free vision.
- + Model specially designed to fit with prescription glasses, dust mask or respiratory half-mask.
- + Indirect ventilation system to prevent fog, liquids and dust (the non-vented version also provides protection against gas and fumes)
- + Lens absorbs more than 99% UV
- + AS/NZS1337.1 Medium Impact Rating

#### Comfort

- + Soft PVC crystal frame with a wide support area all around the face to enhance comfort. Specific channel on the side of the frame to accommodate the temple of prescription frames
- + Wide nylon elastic strap (25mm) which is easily adjustable thanks to a buckle system and to a pivoting strap attachment mechanism.

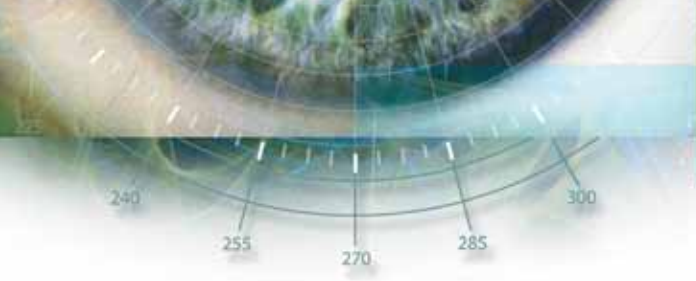


#### Packaging

- + 1 pair/box, 24 boxes/case

Lens	Product Code	3M Description	Packaging
	40170-00000	Clear PVC Frame/Clear Poly Anti-Fog Lens Indirect Venting/Nylon Headband	1 pair/box, 24 boxes/case
	40171-00000	Clear PVC Frame/Clear Poly Hard Coat Lens Indirect Venting/Nylon Headband	1 pair/box, 24 boxes/case
	40172-00000	Clear PVC Frame/Clear Acetate Anti-Fog Lens Non-Vented/Neoprene Headband	1 pair/box, 24 boxes/case
	40173-00000	Black Foam Frame/Clear Poly Anti-Fog Lens Indirect Venting/Nylon Headband	1 pair/box, 24 boxes/case





# 3M™ 334 Economy Goggles

## Features and Benefits:

### Style

- + Practical style

### Protection

- + AS/NZS 1337.1 Medium Impact Rating
- + Splash and dust protection
- + Anti-fog protection
- + Polycarbonate lens absorbs 99.9% UV light
- + Wraparound coverage


### Comfort

- + Lightweight goggles for comfort

### Packaging

- + 1 pair/bag, 10 bags/case


















Lens	Product Code	3M Description	Packaging
	11829-00000	3M™ 334 AF Economy Splash Goggle Clear Frame/Clear Anti-Fog Lens	1 pair/bag, 10 bags/case

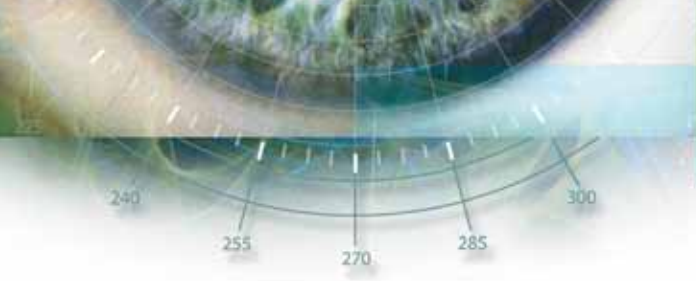
Only available in NZ




# Selection Guide

## Lens Tints

		Clear	Gray	Bronze	I/O Mirror	Amber	Polarized	Photochromic	
<b>SAFETY EYEWEAR</b>									
<b>Premium</b>									
Maxim™ GT		●	●						
Privo™		●	●						
<b>Comfort</b>									
BX™		●	●			●			
Lexa™		●	●						
2740		●	●			●			
SX™		●	●						
<b>Economy</b>									
Virtua™ V4		●	●						
Virtua™ AP		●	●		●	●			
Virtua™		●							
2700		●	●			●			
<b>Specialty</b>									
Photochromic™								●	
Light Vision™		●							
CCS™		●	●						
<b>SAFETY GOGGLES</b>									
Maxim™ 2x2		●	●						
Fectoggles™		●							
Lexa™ Splash GoggleGear™		●							
Fahrenheit™		●							
334		●							



		Lens Coatings			Comfort			Adjustability	
		Hard Coat	Anti-Fog	DX™ AF/HC	Soft Nose Bridge	Soft Temple Tips	Venting	Temples	Nose Bridge
<b>SAFETY EYEWEAR</b>									
<b>Premium</b>									
Maxim™ GT				●	●	●		●	●
Privo™				●	●	●			
<b>Comfort</b>									
BX™				●	●			●	●
Lexa™				●	●			●	●
2740				●				●	
SX™				●	●	●		●	
<b>Economy</b>									
Virtua™ V4			●			●			
Virtua™ AP		●	●						
Virtua™		●	●						
2700			●						
<b>Specialty</b>									
Photochromic™			●		●				●
Light Vision™				●	●	●			
CCS™				●					
<b>SAFETY GOGGLES</b>									
Maxim™ 2x2			●		●				
Fectoggles™				●	●		●		
Lexa™ Splash GoggleGear™				●	●		●		
Fahrenheit™				●	●	●	●		
334			●						



# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor™ Communications



3M E-A-R™ Peltor™ Hearing



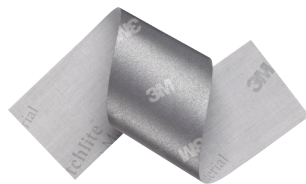
Eye Protection



Head & Face Protection



Speedglas™



Scotchlite™



Sorbents & Spill Management



Vending Solutions

**PELTOR™**



# Head & Face Protection



# 3M™ Peltor™ Head Protection



## 3M™ Headgear G500

The 3M™ Headgear G500 provides a versatile and comfortable solution for wearers who require both face and hearing protection. The G500 has special design features making it easy to combine the headgear with other 3M safety products such as face shields, passive earmuffs or communication headsets.

### Key Features:

- Ratchet for size adjustment
- Printable front cover for customised solutions
- Replaceable sweatband
- Compatible with a wide range of 3M™ Peltor™ passive and communications earmuffs
- Change visors quickly and easily
- Slimline ear muffs Class 4



### 3M™ Headgear G500 Industrial Combination

#### Frontcover

Ventilation for increased comfort. The frontcover is also designed as a cable holder in combination with Peltor Communication products



#### Clear faceshield

5F-1 (Polycarbonate) high impact visor, 1.5mm thick, Anti Fog coated on both sides tested to AS/NZS 1337.1.

### Spare Parts and Accessories:

Product code	Description
5F-1	Polycarbonate Face shield, Clear
HYG50	Plastic sweat band
H9P3E	Earmuffs

### 3M™ Headgear G500 Forestry Combination

#### Frontcover

Ventilation for increased comfort. The frontcover is also designed as a cable holder in combination with Peltor Communication products



#### Mesh Visor

5C (Stainless Steel) Australian Standard under development.

### Spare Parts and Accessories:

Product code	Description
5B	Face shield, Polyamide mesh
5C	Face shield, Stainless steel mesh
5J	Face shield, Stainless steel mesh, etched
HYG50	Plastic sweat band

Product Code	3M Description
G500V5FH510-GU	Headgear Combination Industry Polycarbonate
G500V5CH510-OR	Headgear Combination Forestry Mesh



# 3M™ Peltor™ Head Protection



## Peltor™ G2000 Helmet

Attractive design and excellent protection is the best way to summarise the Peltor G2000 helmet. The helmet goes well beyond the requirements for formal testing and is comfortable with its low back and relatively low profile.

It was designed to accommodate additional accessories, visor and hearing protection.

Fully compliant with AS/NZS 1801

Material: UV-stabilised ABS.

Colours: Yellow, white, orange, red, blue and green

Weight: 340 g

Size: 54-62 cm

### Features and Benefits:

#### Ventilation

Comfort and good ventilation are a must, particularly in warm environments. The G2000 allows free airflow between the helmet and its harness. Combined with ventilation inlet in the top of the helmet, this helps to increase wearer acceptance.

#### Peltor™ Uvicator™ Sensor

The disc indicates when it's time to replace your helmet.

#### Neck protection

Extended edge on the back of the helmet provides extra protection for the sensitive neck area.

#### Headband

This important feature determines how steadily the helmet sits on the head. Easy to adjust.



#### Optimal profile for ear muffs

The G2000 features a special profile design to enable helmet mounted ear muffs to achieve optimal fit and maximum adjustability for individual needs.



#### Ratchet headband

For easier and quicker adjustment.

#### Optional space for customised print

A flat surface for printing a logotype or brand name.

#### Sweatband

Easy to replace for highest comfort and hygiene. Also available in soft leather.

#### Attachment point for accessories

An adjustable snap attachment in the balance point of the helmet to allow simple attachment of accessories, such as muffs, headsets and visors



Product Code	3M Description
G2000CUV-GU	Safety Helmet Assembly Uvicator Yellow
G2000CUV-OR	Safety Helmet Assembly Uvicator Orange
G2000NUV-OR	Safety Helmet Assembly Uvicator W.Ratchet Harness Orange



# 3M™ Peltor™ Face Protection



## Peltor™ Lumberjack

The Peltor lumberjack system combines head, face and hearing protection. This unit was developed for the logging and gardening industry. It has a uniquely designed front visor shield which helps eliminate sawdust and rain from falling between the mesh screen and hard cap. The mesh visor and earmuffs can be swiveled both up or down. The rain guard protects your neck from debris and rain



## Peltor™ Helmet Accessories

A variety of accessories are available to adapt Peltor helmets to individual needs. Like all Peltor products, the accessories are designed to work together without compromising protection. This is a necessity for good protection with high comfort.



### Helmet accessories and spare parts

- GH2 Chinstrap, G2000
- G2E Extra strap for 6-point lining, G2000
- HYG3 Standard sweatband, all
- GLF Lamp and cord holder, G2000
- GR3C Rain protection, all
- P3GV/2 Helmet attachment for visor 24mm
- V412 Linkage kit

Product Code	3M Description
G2000CU0R31V4-C-01	Lumberjack Combination



# 3M™ Peltor™ Head Protection



## Peltor™ Mesh Visors

Mesh visors give effective protection and have long durability. The Peltor etched stainless steel visors are extremely durable with greater safety, comfort and visibility in working mode. The polyamide visor is extremely light and does not conduct electricity.

The Visor Systems include, mesh visor, helmet frame and linkage kit, which will be attached to either a P3E 30mm or a P3G 24mm slotted adaptor. They are designed to be used with or without Peltor earmuffs.



### V4A

- Made of steel with a matt finish.
- The design ensures excellent strength and stability.
- A visor for extremely harsh working environments.

Steel mesh:  $\varnothing 0.3$  1.8 x 1.8 mm. Light reduction: 35%. Weight: 90 g.



### V4C

- Made of stainless steel with a matt finish.
- Uniquely low light reduction, thanks to the rectangular grid providing excellent protection from flying chips and splinters.
- Excellent stability, even after long use.

Stainless steel mesh:  $\varnothing 0.24$  1.8 x 2.5 mm. Light reduction: 25%.

Weight: 80 g.



### V4B

- Made of black polyamide with a matt finish.
- Extremely lightweight and non-conductive – a necessary feature in some environments (e.g. working with electric power cables).

Polyamide mesh:  $\varnothing 0.3$  1.0 x 1.0 mm. Light reduction: 45%. Weight: 70 g.

# 3M™ Peltor™ Head Protection



## Peltor™ Clear Visors

The Visor Systems include visor, helmet frame and cap attachments, which will fit most hard hats by selecting the correct adapters. They are designed to be used with or without Peltor earmuffs.

Visors provide great protection against high speed particles and UVA/UVB radiation.

They are scratch resistant and anti-fog treated on both sides for the maximum field of view. The visor peak and visor are designed to slope to minimise glare and debris.

Visors comply with Australian Standards AS/NZS 1337.1



### V2C

- Excellent high impact-resistant colourless transparent visor.
- Made from high quality polycarbonate, which features good impact and scratch resistant properties.
- Lets through 90% of the light.

Material: Polycarbonate. Temperature range: -40°C to +130°C  
Thickness: 1 mm. Weight: 110 g



### V4F

- Excellent high impact-resistant colourless visor.
- Made from high quality polycarbonate, offering high impact and scratch resistant protection.

Material: Polycarbonate. Temperature range: -40°C to +130°C  
Thickness: 1 mm. Weight: 110 g



### V4D

- Colourless visor.
- Made of cellulose acetate, which is highly resistant to chemicals.
- The visor has good optical properties and is fog treated on both sides.

Material: Anti-fog cellulose acetate. Temperature range: -40°C to +100°C  
Thickness: 1 mm. Weight: 120 g



### V4K

- Like the V4F, but a larger model, giving a greater area to protect against splashes, flying particles etc.
- High Impact Protection

Material: Polycarbonate. Temperature range: -40°C to +130°C  
Thickness: 1.2 mm. Weight: 180 g

# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor<sup>TM</sup> Communications



3M E-A-R<sup>TM</sup> Peltor<sup>TM</sup> Hearing



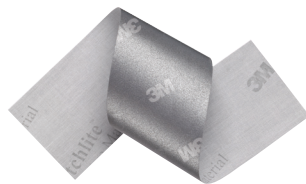
Eye Protection



Head & Face Protection



Speedglas<sup>TM</sup>



Scotchlite<sup>TM</sup>



Sorbents & Spill Management



Vending Solutions

3M™ Speedglas™ Graphic Welding Helmet Series 100

New Upgrades

 **Speedglas™**



Image is  
**Everything**

**3**

YEAR  
WARRANTY  
on welding lens

**3M**

## 3M™ Speedglas™ Welding Helmet Series 100

# Upgraded Features

Speedglas welding helmet series 100 is equipped with industry leading features to bring you premium performance at a highly affordable price.

Appropriate for most arc welding processes, including Stick, MIG and TIG welding.

Compliant with Australian & New Zealand Standard AS/NZS1337 for high impact.

Dark shade can be increased to 13 or 14 using upgrade plates.

Quality Speedglas graphics.

Made in Sweden



## New Upgrades

### NEW

Now with advanced TST (TIG Sensor Technology).

### NEW

Shade 3 sensitivity setting for grinding.

### NEW

Improved head harness with smooth ratchet mechanism for precise tightening and comfort.

### NEW

Built-in holder for magnifying lenses. Attaching the lens is easier and the fit is more accurate.

### NEW

New delay function allows you to set the dark-to-light opening time.



## New Ratchet Head Harness

The new Speedglas welding helmet series 100 head harness provides comfort and adaptability. Featuring a smooth ratchet mechanism and multiple adjustment points, the head harness provides a customised fit.



## Powerful New Welding Lens

Speedglas welding lens 100V is equipped with five adjustable dark shades: 8-12, a light shade of 3, three sensitivity settings, two delay settings and a new grind mode. Versatility at your fingertips.

## 3M™ Speedglas™ Welding Helmet Series 100

# Graphic Series

Speedglas welding helmet series 100 delivers legendary Speedglas optical clarity and protection with distinctive graphic designs. Make an impact - choose from the graphics below.



**Ninja**  
751120



**Trojan Warrior**  
751620



**Aces High**  
751720



**Xterminator**  
752220



**Boneyard**  
752320



**Razor Dragon**  
752420



**Ice Hot**  
752520



**Raging Skull**  
752620



### New Three Year Warranty

Speedglas auto-darkening lens manufacturing processes are supported by rigorous quality assurance systems. As a consequence, Speedglas auto-darkening welding lenses are now backed by a 3 year warranty\*.

Technical Specification	3M™ Speedglas™ Welding Lens 100V
Approvals	Conforms to AS/NZS1338.1
Eye protection	AS/NZS1337
Face protection	
Rated for	Stick, MIG, TIG >10 amps and grinding
Switching time, light-dark	0.1 ms @ 23°C
Switching time, dark-light	40 - 250 ms
UV / IR protection	Shade 12 (permanent)
Viewing area	44 x 93 mm
Light state	Shade 3
Dark state	Shade 8-12 (variable)
Battery lifetime	1500 hours

# Still ahead of its time...

More than 35 years ago, we went to the shipyards of Sweden to study the welder's working environment. Soon after, Speedglas released the first auto-darkening welding helmet and with its exclusive technology has been the benchmark for welders' personal protection ever since.

 **Speedglas™**



## Which welding helmet? Try our welding helmet product selector.

Visit [app.speedglas.com](http://app.speedglas.com) on your mobile or scan the QR code above. Compatible with Apple & Android smart phones in Australia.

**Visit us @ [www.awsupplies.com.au](http://www.awsupplies.com.au)**

**Register your product and subscribe today**



© 3M 2013 All rights reserved. 3M and Speedglas are trademarks of 3M.

Australian Welding Supplies Pty. Ltd  
Unit 13, 39 Herbert Street • Artarmon NSW 2064 • Australia  
Tel: (02) 9439 0111 • Fax: (02) 9439 0100  
E-mail: [sales@awsupplies.com.au](mailto:sales@awsupplies.com.au) • [www.awsupplies.com.au](http://www.awsupplies.com.au)

\*3M and Australian Welding Supplies Pty Ltd (AWS) warrants that the Auto-Darkening Welding Lens (ADL) will be free of defects in workmanship and materials for a period of three (3) years from date of purchase. The warranty excludes failure resulting from improper use or modification of the ADL and factors beyond the control of AWS. Except where prohibited by law, AWS and 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted. In the case of a warranty claim, a copy of the receipt with date of purchase, along with a description of the fault must be enclosed. This warranty is provided in addition to other rights and remedies you have under law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be acceptable quality and the failure does not amount to a major failure.



3M™ Speedglas™ Welding Helmet Series 9100



 **Speedglas™**



The  
**Ultimate**  
Series



# AS/NZS Protection without Compromise



winner

European  
Design Prize 97



reddot design award  
best of the best 2009



reddot design award  
winner 2012

# 3M™ Speedglas™ Welding Helmet Series 9100

The Speedglas welding helmet series 9100 is built on 30 years of expertise and sets a new benchmark in welding helmet technology. The 9100 series is designed for professional welders who require optimum comfort,

trusted protection and ultimate performance. Our top-of-the-line 9100 series welding helmets are now available with a safety helmet, flip-up functionality and integrated respiratory protection.

	3M™ Speedglas™ Welding Helmet 9100		Face	Eye	Page 6		
	3M™ Speedglas™ Welding Helmet 9100 Air	Respiratory	Face	Eye	Page 7		
	3M™ Speedglas™ Welding Helmet 9100 FX		Face	Eye	Page 8		
	3M™ Speedglas™ Welding Helmet 9100 FX Air	Respiratory	Face	Eye	Page 9		
	3M™ Speedglas™ Welding & Safety Helmet 9100	Head		Face	Eye	Page 10	
	3M™ Speedglas™ Welding Helmet 9100 MP Air	Hearing	Head	Respiratory	Face	Eye	Page 11



## Largest View on the Market\*

The 3M™ Speedglas™ Welding Helmet Series 9100 features the top-of-the-line Speedglas auto-darkening welding lens 9100XX. Speedglas 9100XX is our largest lens ever and

continues our legendary tradition of outstanding optical quality. The lens allows you to weld, cut, grind and tack all in one. Experience the power of Speedglas 9100XX.

### Hot Spot Analysis

- Compliant with Australian and New Zealand Standard AS/NZS 1338.1
- Highest possible rating across three optical classifications
- Our most sensitive lens ever - rated down to 1 amp
- Increase your viewing area to 73x107mm
- Extreme versatility with shades 3/5/8/9-13

Technical Data Welding Lens	3M™ Speedglas™ Welding Lens 9100XX
Approvals Eye protection	Conforms to AS/NZS 1338.1
Classification*	1 / 1 / 1
Switching time, light-dark	0,1 ms (+23°C)
Low TIG Rating	≥ 1 amp
Delay (Switching time: dark-light)	User-adjustable 40–1300 ms
UV/IR protection	Shade 13 (permanent)
Viewing area	73 x 107 mm
Light state	Shade 3
Dark state	Shade 5, 8, 9–13 (variable)
Fail/Safe state	Shade 5
Battery type	Lithium 3 Volt
Battery lifetime	2 000 hours

\*The Speedglas welding lens 9100XX when combined with the peripheral Speedglas SideWindows gives the largest viewing area amongst auto-darkening welding helmets currently available on the Australian and New Zealand market at the time of printing this brochure.

\* Auto-darkening welding lenses have a classification system in European Standard EN379: optical class / diffusion of light / variation on luminous transmittance. Classifications range from 1 to 3, with 1 being the best.

## High Comfort Head Harness

3M™ Speedglas™ Welding Helmet Series 9100 features a highly adjustable, comfortable head harness\*. The outside of the human head is lined with nerve-endings, arteries, and acupressure points; applying pressure to some of these spots actually makes a person feel fatigued. The head harness

specifically avoids these vulnerable areas. It provides multiple adjustment combinations so you can “tailor” the helmet to fit your personal preferences and comfort setting. Less pressure - and a perfectly-adjusted, personal fit - means more comfort, all day long.

Fits head sizes 500 to 640 mm.

Smooth ratchet for precise tightening.

Swiveling, self-adjusting back strap accommodates a cap worn backwards.



Two adjustable crown straps distribute weight for better stability and balance.

Self-adjusting “twin pads” contour to your head.

Snag-resistant knobs for adjusting the helmet’s pivot resistance (right) and parked position (left) - even while wearing gloves.

You can adjust the helmet’s angle while wearing the helmet on your head.

### More Comfortable When Raised

In the raised position, the Speedglas 9100 series helmet’s “high point” is comparatively lower than other head harness solutions which means that it is closer to the head delivering superior balance. Improvements in balance means that the head harness does not need to be tightened as much, thereby increasing wearer comfort.

### Parked Position

The smooth up-and-down pivot action can be “locked” in the up position - a light pull lowers the helmet back down again.



\* The Speedglas head harness 9100 featured above is not available in the safety helmet options.

# 3M™ Speedglas™ Welding Helmet 9100

## Ultimate Performance

Protecting your eyes and face from radiation, heat and sparks while providing unprecedented optical quality, the Speedglas welding helmet 9100 will be one of your most important welding tools.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact protection.

3M™ Speedglas™ Welding Lens 9100XX with superior optical performance for continuous viewing comfort.

Heat reflecting silver front.

Exclusive exhaust vents to assist in removing exhaled air.

High comfort head harness.

Increased coverage for ears and side of neck.

SideWindows: Exclusive shade 5 windows that widen your field of vision.

Extended-length, flame-resistant head, neck and ear protection available as accessories.



New 3M™ Peltor™ Earmuffs MH505B are purpose built for the 9100 series. These earmuffs provide a moderate level of attenuation that meets the needs of most welding industry applications.

**Magnifying lens holder:** provides precise lens placement.

**Exhaust vents:** direct your exhaled air out of the helmet, reducing the likelihood of a foggy welding lens.



**NEW**

# 3M™ Speedglas™ Welding Helmet 9100 Air

## Now with Respiratory Protection

All of the benefits of the Speedglas welding helmet 9100 can now be used in combination with the 3M™ Adflo™ Powered Air Respirator or 3M™ Versaflo™ Supplied Air Regulator V-500E.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact protection.

SideWindows: Exclusive shade 5 windows that widen your field of vision.

The all-new face seal, follows the contours of both the helmet and your face.

The airduct is an integral part of the helmet, providing a refreshing flow of air across the entire breathing zone of the helmet.

High-comfort head harness.

An innovative quick release attachment enables one-handed breathing tube connection and release.



**Airflow:** The middle channel keeps the welding lens fog-free, while two side channels provide smoothly delivered air to your nose and mouth.



**Extended protection:** A flame-resistant headcover (used in this application) and ear/neck protection are available as accessories to all Speedglas 9100 series welding helmets.

NEW

# 3M™ Speedglas™ Welding Helmet 9100 FX

## New Flip-up Helmet Functionality

Introducing the Speedglas welding helmet 9100 FX, a flip-up combination of an auto-darkening welding helmet and a protective visor. Not only is the viewing area larger

compared to previous models, we totally redesigned the geometry of the helmet for a wider field of view in all directions.

3M™ Speedglas™ Welding Lens 9100XX with superior optical performance for continuous viewing comfort.

Smooth flip-up function with curved 170 x 100 mm clear protective visor, increasing your peripheral vision to 170°.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact protection.

The entire helmet can also be 'locked' in the perfectly balanced, up, parked position.

SideWindows: Exclusive shade 5 windows that widen your field of vision.

Exclusive exhaust vents to assist in removing exhaled air.



A spark and spatter-resistant head cover is included as standard in all 9100 FX series welding helmets. An optional extended-length head cover and ear/neck protection are available as accessories.





**NEW**

# 3M™ Speedglas™ Welding Helmet 9100 FX Air

## New Flip-up Helmet with Respiratory Protection

All of the benefits of the Speedglas welding helmet 9100 FX can now be used in combination with the 3M™ Adflo™ Powered Air Respirator or 3M™ Versaflo™ Supplied

Air Regulator V-500E. Workers can have integrated face, eye and respiratory protection - whether they are grinding, welding, or simply walking through a work zone.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact protection.

SideWindows: Exclusive shade 5 windows that widen your field of vision.

Improved respiratory protection. Reduced inward leakage means better breathing air quality.

High-comfort head harness.

The breathing tube is attached to the head harness instead of the helmet for improved comfort and balance.

An innovative quick release attachment enables one-handed breathing tube connection and release.



To achieve a higher level of respiratory protection, air is supplied directly to the breathing zone. A diffuser broadens and reduces the speed of the airflow for your maximum comfort.



A quick lift of the silver front and you get a clear, big, 170 x 100 mm view — perfect for precision grinding in low light conditions, while maintaining your respiratory protection.

NEW

# 3M™ Speedglas™ Welding Helmet 9100

## With Safety Helmet

All the benefits of the Speedglas welding helmet 9100 can now be used in conjunction with head protection for welders working in areas with overhead hazards.

The Speedglas welding helmet 9100 can now be fixed to an Australian and New Zealand Standards compliant Type 2 industrial safety helmet.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact protection.

SideWindows: Exclusive shade 5 windows that widen your field of vision.

Increased coverage for ears and side of neck.

Type 2 industrial safety helmet compliant with Australian and New Zealand Standard AS/NZS1801.

High-comfort ratchet head harness.

Exclusive exhaust vents to assist in removing exhaled air.



The Speedglas welding helmet 9100 can be fitted to a variety of Type 1 or Type 2 industrial safety helmets\* compliant with Australian and New Zealand Standard AS/NZS1801.

You never know what could become an overhead hazard on a worksite. The Speedglas welding helmet 9100 with safety helmet provides head protection for locations where overhead hazards may be present.

**NEW**

# 3M™ Speedglas™ Welding Helmet 9100 MP Air

## Multi-Protection: Head, Eye, Face, Respiratory and Hearing

Introducing the Speedglas welding helmet 9100 MP Air, a flip-up combination of an auto-darkening welding helmet, a protective visor and a safety helmet.

The Speedglas welding helmet 9100 MP Air can be used in combination with the 3M™ Adflo™ Powered Air Respirator or the 3M™ Versaflo™ Supplied Air Regulator V-500E.

Compliant with Australian and New Zealand standard AS/NZS1337.1 for high impact protection.

3M™ Speedglas™ Welding Lens 9100XX with superior optical performance for continuous viewing comfort.

Smooth flip-up function with curved 170 x 100 mm clear protective visor, increasing your peripheral vision to 170°.



The safety helmet is made from heat resistant polycarbonate and conforms to Australian and New Zealand standard AS/NZS1801 for head protection.

SideWindows: Exclusive shade 5 windows that widen your field of vision.

The entire helmet can also be 'locked' in the perfectly balanced, up, parked position.



The world's leading brand in personal protective equipment for welders - 3M Speedglas - teams up with the leading name in earmuff protection - 3M Peltor - delivering AS/NZS 1270 compliant hearing protection.

# 3M™ Adflo™ Powered Air Respirator

## A Cool, Refreshing Breeze for Hot Working Conditions

With its smart, compact design, the award-winning 3M™ Adflo™ Powered Air Respirator is specially designed to meet your welding needs when used with the 3M™ Speedglas™ Welding Helmet 9100 Air, 3M™ Speedglas™ Welding Helmet 9100 FX Air and 3M™ Speedglas™ Welding Helmet 9100 MP Air. Its continuous airflow provides filtered air that takes much of the heat and sweat out of welding. By using the Adflo respirator, you get both increased protection and comfort all day long.

## Full Mobility

The slim profile is perfect for use in tight spaces. Its ergonomics are based on the welder's need for lightweight, adaptable and easy-to-use respiratory protection.

## An Adaptable System that Saves Money

With the right type of filter, the Adflo respirator effectively protects against both particles and gases – all in one system. Because you can selectively replace either the particle or the gas filter as needed: you don't need to change both filters at the same time.



## Constant Flow of Clean Air

The airflow is always a constant nominal rate of 170 litres/minute, regardless of the battery's charge or the particle loading of the filter. For hot, humid jobs, you can increase the airflow to 200 litres per minute by simply pushing the ON button a second time. The Adflo complies to Australian and New Zealand standard AS/NZS 1716 for powered air respirators and delivers a Required Minimum Protection Factor (RMPF) of 50.



Full mobility with adaptability.

Technical Data	3M™ Adflo™ PAPR
Approvals Respiratory Protection	Conforms to AS/NZS 1716
Required Minimum Protection Factor (RMPF)	50
Airflow Standard Airflow Plus	170 litres/minute 200 litres/minute
Weight Respirator	1150g
Battery Charging Time	NiMH 4 hours
Noise level dB	Max 75 dB
Belt	Leather 75-115cm
Gas and odour filters available as an optional extra.	

**NEW**

# 3M™ Versaflo™ Supplied Air Regulator V-500E

## Your Welding Environment

The 3M™ Versaflo™ Supplied Air Regulator V-500E is a lightweight, belt mounted regulator that allows you to adjust the airflow from 170 litres/minute to 305 litres/minute. The high, constant flow rate makes the V-500E regulator ideal for hot and strenuous welding conditions when used with the Speedglas 9100 Air, Speedglas 9100 FX Air and Speedglas 9100 MP Air

## Connects to Breathable Air Hoses

The belt-mounted regulator connects to an approved breathable air hose with a new quick release connection. The airline supply must be air of breathable quality meeting the performance standards of AS/NZS1716. Oil mist, water vapour or non-toxic, unpleasant odours can be removed with a breathing air filtration system.

## Respirator Standards

The Versaflo regulator V-500E complies to Australian and New Zealand standard AS/NZS1716 for supplied air respirators and delivers a Required Minimum Protection Factor (RMPF) of 100+.



## Innovative & Quiet

The Versaflo regulator V-500E features an integrated low flow warning whistle and a silencer that reduces the regulator's noise level to less than 65 dBA - the equivalent of a typical conversation. The regulator unit can be positioned on the belt to accommodate right and left handed users and a swiveling bayonet connector allows the breathing tube to move freely to the most comfortable position.



Lightweight with high flow rates.

Technical Data	3M™ Versaflo™ SAR V-500E
Approvals Respiratory Protection	Conforms to AS/NZS 1716
Required Minimum Protection Factor (RMPF)	100+
Airflow Nominal Pressure Range Maximum Pressure	170-305 litres/minute 3.5-8 bar 10 bar
Weight	514 grams
Noise Level dB	Max 65 dB
Feeder Hose	Conforming to AS/NZS1716
Inlet and auxiliary port	1/4 inch BSP thread
Carbon filter available to remove odours.	

# A General Guide to Respiratory Protection

## How To Use This Guide:

Identify the material to be welded and the welding process to be used. The concentration level of the pollutants are affected by the ventilation conditions in the workplace. Choose the appropriate description of the working environment to determine the most suitable type of respiratory protection\*.



- P Powered air respirator with particle filter
- A Powered air respirator with A gas filter
- S Supplied air respirator

Material to be welded	Welding method	Ventilation conditions of your working environment			
		Good environment, with forced ventilation	Limited ventilation	Restricted space	Classified as IDLH
Aluminium	MIG	P	P / P + A	S	Powered and Supplied air respirators must never be used in atmospheres Immediately Dangerous to Life or Health (IDLH). Always consult your Safety Engineer.
	TIG	P	P / P + A	S	
	STICK WELDING	P	P / P + A	S	
Stainless steel	MIG	P	P / P + A	S	
	TIG	P	P / P + A	S	
	STICK WELDING	P	P / P + A	S	
	PLASMA (Welding and Cutting)	P	P + A / S	S	
Steel not coated or painted	MIG/MAG	P	P	S	
	STICK WELDING	P	P	S	
	PLASMA (Welding and Cutting)	P	P / S	S	
Steel painted (lead based paints)	MIG/MAG	P	P	S	
	STICK WELDING	P	P	S	
	PLASMA (Welding and Cutting)	P	P / S	S	
Steel galvanised	MIG/MAG	P	P	S	
	STICK WELDING	P	P	S	
	PLASMA (Welding and Cutting)	P	P / S	S	
Steel painted and/or isolated with 2-component paint systems or polyurethane (risk for isocyanate)	MIG/MAG	P	S	S	
	STICK WELDING	P	S	S	
	PLASMA (Welding and Cutting)	P	S	S	
Material cleaned with trichloroethylene	MIG	S	S	S	
	TIG	S	S	S	
	STICK WELDING	S	S	S	
	PLASMA (Welding and Cutting)	S	S	S	

\* To the extent permitted by law, 3M accepts no liability for the incorrect choice of respiratory protective equipment. This chart is only an outline. It is designed to help focus on the most appropriate respirators in the 3M range for particular applications. It should not be used as the only means of selecting a respirator. Details regarding performance and limitations are set out on the respirator packaging and user instructions.

# Part Numbers & Technical Data

A System For Every Welder

Model Name	3M™ Speedglas™ Welding Helmet 9100	3M™ Speedglas™ Welding Helmet 9100 Air with 3M™ Adflo™ PAPR	3M™ Speedglas™ Welding Helmet 9100 Air with 3M™ SAR V-500E	3M™ Speedglas™ Welding Helmet 9100 FX with Flip-up	3M™ Speedglas™ Welding Helmet 9100 FX Air with Flip-up + 3M™ Adflo™ PAPR	3M™ Speedglas™ Welding Helmet 9100 FX Air with Flip-up + 3M™ SAR V-500E	3M™ Speedglas™ Welding Helmet 9100 with Safety Helmet	3M™ Speedglas™ Welding Helmet 9100 MP Air with Flip-up + safety helmet + 3M™ Adflo™ PAPR	3M™ Speedglas™ Welding Helmet 9100 MP Air with Flip-up + safety helmet + 3M™ SAR V-500E
------------	------------------------------------	---	--	--	--	---	---	--	---



Page 6



Page 7, 12



Page 7, 13



Page 8



Page 9, 12



Page 9, 13



Page 10



Page 11, 12









Page 11, 13

Part Number	501825	566625	568825	541825	546625	548825	583825	576625	578825
Standards Compliance	AS/NZS1338.1	AS/NZS1338.1	AS/NZS1338.1	AS/NZS1338.1	AS/NZS1338.1	AS/NZS1338.1	AS/NZS1338.1	AS/NZS1338.1	AS/NZS1338.1
Eye protection	AS/NZS1337.1	AS/NZS1337.1	AS/NZS1337.1	AS/NZS1337.1	AS/NZS1337.1	AS/NZS1337.1	AS/NZS1337.1	AS/NZS1337.1	AS/NZS1337.1
Face protection									
Head Protection							AS/NZS1801	AS/NZS1801	AS/NZS1801
Respiratory Protection		AS/NZS1716	AS/NZS1716		AS/NZS1716	AS/NZS1716		AS/NZS1716	AS/NZS1716
Hearing Protection								AS/NZS1270	AS/NZS1270
Required Minimum Protection Factor (RMPF)		50	100+		50	100+		50	100+
Bonus Speedglas Bag									

## Upgrade Kits For Existing Speedglas Customers

Existing Adflo Respirator System Upgrade Kits

Product Image	Part Number	Upgrade Kit Description	Bonus Speedglas Bag
	569025	Speedglas welding helmet 9100 Air with 9100XX lens upgrade kit. Attaches to your current Adflo PAPR system.	
	549025	Speedglas welding helmet 9100 FX Air with 9100XX lens upgrade kit. Attaches to your current Adflo PAPR system.	
	579025	Speedglas welding helmet 9100 MP Air with 9100XX lens upgrade kit. Attaches to your current Adflo PAPR system.	



[Welding](#) | [Safety](#) | [Industrial](#) | [About Us](#)

**Speedglas™**  
+61 (0) 2 9439 0111

**Latest News**

**Welding & Brain Damage**  
A Mayo Clinic case series analysis has pinpointed for the first time syndromes associated with toxic damage to the brain and nervous system from... [read more](#)

[Warranty Subscription](#)



**Search**

**Subscribe**

If you would like to receive information on product launches, product updates or promotions please fill in the fields below and subscribe today.



**Welding**



**Safety**



**Industrial**

[Distributor Login](#) | [Privacy Policy](#) | [Search](#) | [Contact Us](#)  
Copyright 2010. All rights reserved. Speedglas and Adflo are trademarks of 3M Company. Website by FIMAO.

Visit us @ [www.awsupplies.com.au](http://www.awsupplies.com.au)

Register your product and subscribe today

AWS 9100 2012 07 10,000





# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor<sup>TM</sup> Communications



3M E-A-R<sup>TM</sup> Peltor<sup>TM</sup> Hearing



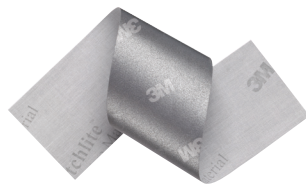
Eye Protection



Head & Face Protection



Speedglas<sup>TM</sup>



Scotchlite<sup>TM</sup>



Sorbents & Spill Management

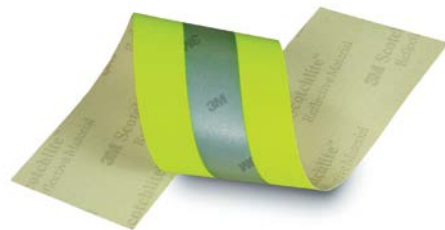


Vending Solutions

# 3M™ Scotchlite™ Reflective Material Visibility Solutions



The Science  
of being  
Seen



Get reassurance that your workwear is compliant and made using authentic 3M™ Scotchlite™ Reflective Material





## Workplace Visibility Solutions

Visibility by day and night is an essential safety aspect for workers who are exposed to dangers during their daily work.

3M™ Scotchlite™ Reflective Material improves visibility and safety for the wearer during daytime, at night or under low light conditions such as bad weather.

As the market leader in reflective material, 3M has a large portfolio of products to meet your worker visibility needs. Scotchlite reflective material can be used in many different occupational fields from firefighting to mining, road construction and police work.

Its superior quality and performance provides long lasting functionality even under harsh conditions.



The wide range of Scotchlite reflective material products allows you to design shirts, pants, vests, jackets, rainwear, footwear, helmets and apparel that satisfy your exact specifications.

### The 3M Australia & New Zealand Supply Program - Your Guarantee

The 3M Australia & New Zealand Supply program offers Australian and New Zealand customers the certainty of authentic 3M™ Scotchlite™ Reflective Material when purchasing any garments incorporating our retro-reflective trim.

Also, purchasing through the 3M Australia & New Zealand Supply program entitles you to an array of technical services that our high visibility workwear experts can provide.

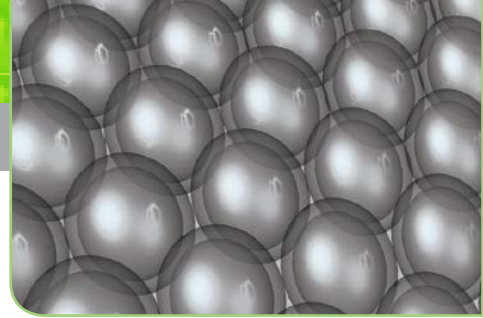
As an added benefit, 3M Australia & New Zealand offers a full garment replacement warranty in the event of a reflective material not meeting the applicable 3M product specifications – providing even more certainty that you have made the right choice.

Australia & New Zealand  
Supply

**3M**

Always ask if your product is supported by the 3M Australia & New Zealand Supply Guarantee or check the garment for the above sew-in “3M Australia & New Zealand Supply” yellow label.

# 3M™ Scotchlite™ Reflective Material



## Retro-Reflection Technology

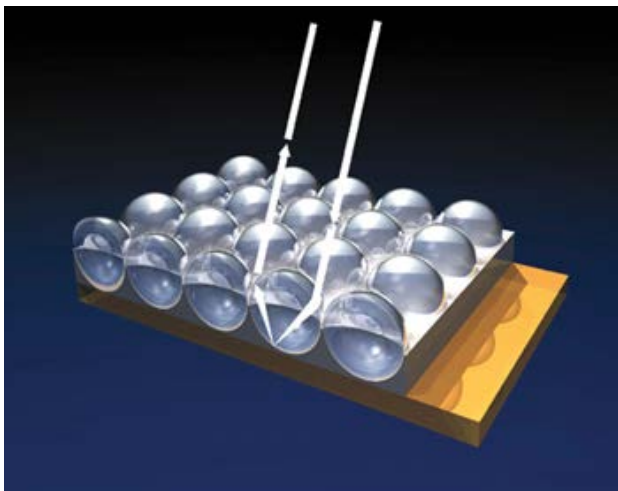
3M™ Scotchlite™ Reflective Material makes use of a technology known as retro-reflection. The material is easy to process which allows for numerous creative possibilities. Scotchlite reflective material can be sewn into garments or simply applied using a heat transfer process.

Millions of small glass spheres, or micro-prisms reflect the incident light and focus it back towards the original light source. The obvious safety advantage is that the person in the light can be seen better and sooner thanks to the retro-reflective effect.

**Scotchlite reflective material uses two different technologies in our retro-reflective range of materials:**

### Glass Bead Technology

This technology utilises millions of high performance glass beads that reflect light effectively in all directions due to their spherical nature.

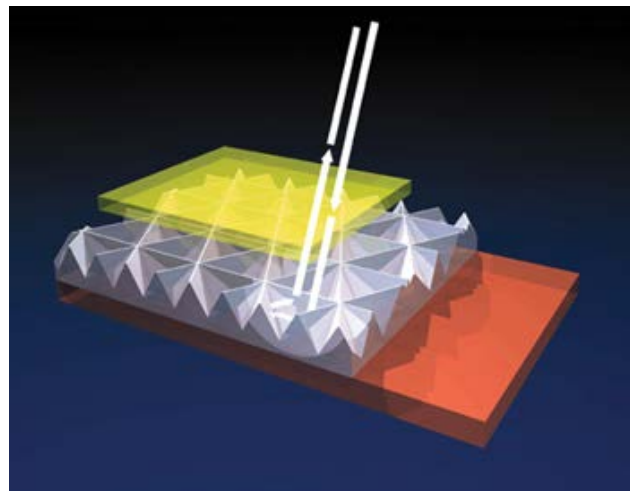


#### Features and Benefits:

- + Highly reflective
- + High durability
- + Flexible, fabric-like feel makes it very comfortable to wear and provides freedom of movement, easy storage and folding
- + Extensive Flame Resistant\* products available
- + Range of products: sew-on and heat laminate
- + Industrial wash products available

### Microprismatic Technology

Microprismatic Technology incorporates retro-reflective microscopic prisms formed on a polymeric film to create a bright reflective appearance on garments and accessories.



#### Features and Benefits:

- + Highly reflective
- + High durability
- + Attractive, high-gloss finish
- + Provides enhanced day visibility combined with high visibility at night and low light situations
- + Available in different colours
- + Can be sewn or welded onto garments (not suitable where static electricity is an issue, eg. coal mining)

\* **Flame Resistant:** property of a material whereby combustion is prevented, terminated or inhibited following the application of a source of ignition. **Fire retardant:** chemical that tends to inhibit combustion when applied on, mixed in or combined with combustible materials. (NFPA Glossary of Terms 2008)



# Industrial Safety Applications

## Australia/New Zealand Standards for High Visibility Garments

3M™ Scotchlite™ Reflective Material is manufactured within an ISO 9002 controlled manufacturing environment. To ensure the highest safety levels are reached, all fabrics, trims and films exceed the requirements of the relevant AS/NZS standards.

### AS/NZS 1906.4

#### Retro-reflective materials for road traffic control purposes

This Standard describes the material performance parameters for Class R (retro-reflective) and Class RF (retro-reflective and fluorescent) materials.

### AS/NZS 4602.1

#### High visibility safety garments for high risk applications

This Standard specifies the visual requirements for high visibility safety garments for occupational wear by people who may be exposed to the hazards of moving traffic, moving plant or equipment in high risk situations. It covers possible designs suitable for both daytime and night time wear.

### Enlightening Fact

At night, you are more visible in a white garment than a Class D Garment because fluorescence is a daytime only phenomenon. It needs UV from the sun to make it 'glow'.



**Class D/N for 24 hour Day/Night use**



**Class N for Night time use**



**Class D for Daytime use**

Minimum width of retro-reflective tape = 50 mm.

Exception in Australia for 2 x 25mm strips.



# Australian/New Zealand Standards for High Visibility Garments for Fire Service Personnel

**Standard: AS/NZS 4967 - Protective clothing for structural firefighting**

**Standard: AS/NZS 4824 - Protective clothing for wildland firefighting**

These Standards specify the minimum requirements and test methods for assessing protective clothing that is intended to be worn by fire service personnel. Retro-reflective and/or fluorescent trims are submitted to flame spread and heat resistance tests as well as luminous intensity after heat exposure.

**Standard: AS/NZS 4602.2 - High visibility safety garments Part 2: Garments for fire service personnel**

The objective of the Standard is to define requirements for high visibility safety garments for fire service personnel working in smoke, traffic or other high risk situations. Garments are classified into two categories depending on the outer shell material and the quantity of high visibility trim used.



**Classification 1 Garment**



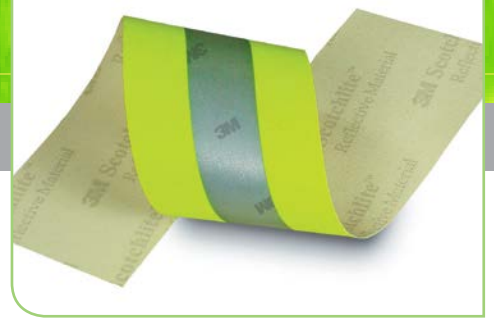
**Classification 2 Garment**

## Trusted to stay bright

It's no wonder you see 3M™ Scotchlite™ Reflective Material - Series 9500 Fire Coat Trim on so many firefighters and emergency personnel worldwide. For over 25 years, it has been earning trust and respect from those whose safety depends on being visible.

## Trusted to stand up through extreme heat

Exposure to extreme temperatures is a fact of life in fire fighting. That's why we engineer Scotchlite reflective material - series 9500 fire coat trim to be able to take the heat.



## Look for the 3M logo

To verify their authenticity, certain 3M™ Scotchlite™ Reflective Material products (see below table) have an embedded 3M logo visible on the front where it can easily be seen, even on a completed garment. Protecting our trademarks is extremely important at 3M, and authenticating our product with the 3M logo is one measure we take so you always know you're getting what you specified.

## Follow these steps to confirm it's authentic 3M™ Scotchlite™ Reflective Material

1. Stand approximately three metres away from garment.
2. Hold a flashlight or flashlight app on your mobile phone directly in front of your nose, and aim it toward the garment.
3. Take a few steps forward or backward, as optimal viewing distance will vary based upon room illumination and the brightness of your light source.
4. The 3M logo will appear in a continuous, bidirectional pattern to validate you are looking at authentic Scotchlite reflective material.





## Why 3M?

### Trusted

3M invented retroreflective technology and has been advancing the science for over 70 years. We are known worldwide for delivering quality products that do what they promise.

### Compliance

3M™ Scotchlite™ Reflective Material products are tested by independent laboratories according to the most relevant national standards, including AS/NZS 1906.4, 4824 and 4967. We go beyond minimum requirements, continuously testing and meticulously applying quality control systems to help ensure consistent performance beyond conventional guidelines.

### Support

Wherever your garments are being manufactured, you'll benefit from the experience and on-the-ground support of 3M's renowned global supply chain and dedicated support team.

### Performance

3M products are known for high performance. Our time-tested processes, quality assurance protocols, and Six Sigma method improvements are why Scotchlite reflective material products are trusted worldwide to last through multiple laundry cycles and to meet or exceed many global high visibility standards.

### Quality

Our dedicated, leading edge facilities are designed for the highest quality precision engineering, resulting in the most reliable product performance. You have reassurance that products will perform to specifications, order after order.

### Innovation

3M backs you with unsurpassed technical and design expertise and the broadest product portfolio in the industry. So no matter what your need, there is a high quality Scotchlite reflective material solution that is right for you.



# Reflective Material Selection Guide

A complete range to meet all your design and performance

Product	Daytime Colour	Typical Brightness R <sub>A</sub> (cd.lx <sup>-1</sup> .m <sup>-2</sup> )	Backing Fabric/ Film	Product Features/Certifications <sup>1</sup>	Domestic wash/dry cycles <sup>2</sup>	Typical Applications & Industries <sup>3</sup>
<b>Transfer Films</b>						
5510		330	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4, Class R</li> <li>Can be die-cut, hand-cut or guillotined</li> <li>Protected by plastic liner on the glass beads surface</li> <li>Segmented trim keeps wearer drier and cooler</li> <li>Improved drape compared to solid trims</li> <li>Improved wash durability compared to equivalent 3M solid trims provides better value</li> </ul>	60°C x 75 x 30	
5530		330	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4, Class R</li> <li>Can be die-cut, hand-cut or guillotined</li> <li>Protected by plastic liner on the glass beads surface</li> <li>Segmented trim keeps wearer drier and cooler</li> <li>Improved drape compared to solid trims</li> <li>Improved wash durability compared to equivalent 3M solid trims provides better value</li> </ul>	60°C x 100 x 50	
5807		500	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4, Class R</li> <li>Can be die-cut, hand-cut, guillotined or plotter cut</li> <li>Rigid thick polyester liner allows to create detailed graphic designs</li> <li>Clear polyester liner for easy positioning in a single-step lamination</li> </ul>	60°C x 50 x 30	
8711		500	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 Class R</li> <li>Ideal for screen printing prior to lamination</li> <li>Linerless</li> </ul>	60°C x 25 x 25	
8712		500	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 Class R</li> <li>Can be die-cut, hand-cut, guillotined or plotter cut</li> <li>Protected by a white paper liner on the glass beads surface</li> <li>Imaged printing on the beads side for immediate authenticity checking</li> <li>3M logo on front of product (8712N alternative without logo also available)</li> </ul>	60°C x 25 x 25	
8725A		500	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 Class R</li> <li>Can be die-cut, hand-cut, guillotined or plotter cut</li> <li>Protected by a white paper liner on the glass beads surface</li> <li>Good resistance to abrasion and chemicals</li> <li>3M logo on front of product (8725N alternative without logo also available)</li> </ul>	60°C x 50 x 30	
9720 9720PC		500	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 Class R</li> <li>9720 Linerless</li> <li>9720PC Protected by a white paper liner on the glass beads surface. Plotter cut ready.</li> </ul>	60°C x 50 x 50	
8735		500	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 Class R</li> <li>Arch Thermal Performance Value (ATPV) ≥ 5 cal/cm<sup>2</sup> according to ASTM 1959<sup>4</sup></li> <li>Linerless</li> </ul>	60°C x 50 	
9740		500	Heat activated adhesive film	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 Class R</li> <li>Arch Thermal Performance Value (ATPV) ≥ 5 cal/cm<sup>2</sup> according to ASTM 1959<sup>4</sup></li> <li>Industrial Wash performance</li> <li>Protected by white paper liner on the glass beads surface</li> </ul>	60°C x 50 	
<b>High Gloss Fabrics</b>						
7160		700	White flexible vinyl film sealed on backside	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 class R</li> <li>High gloss microprismatic retroreflective material for glossy appearance on reflective element</li> <li>Sealed edges with channels for sewing</li> <li>3M pattern appears on tape surface for brand identification</li> </ul>	60°C x 75 	
7187		500	Lime/Yellow flexible vinyl film sealed on backside	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 class RF</li> <li>High gloss microprismatic retroreflective material for gloss appearance on reflective element</li> <li>Premium seal strength for durable applications</li> <li>3M pattern on tape surface for brand identification</li> <li>Fluorescent colour suitable for 24 hours high visibility environments</li> </ul>	60°C x 75 	
7196		500	Orange flexible vinyl film sealed on backside	<ul style="list-style-type: none"> <li>AS/NZS 1906.4 class RF</li> <li>High gloss microprismatic retroreflective material for gloss appearance on reflective element</li> <li>Premium seal strength for durable applications</li> <li>3M pattern on tape surface for brand identification</li> <li>Fluorescent colour suitable for 24 hours high visibility environments</li> </ul>	60°C x 75 	

# Reflective Material Selection Guide



Product	Daytime Colour	Typical Brightness $R_A$ (cd.lx <sup>-1</sup> .m <sup>2</sup> )	Backing Fabric/Film	Product Features/Certifications <sup>1</sup>	Domestic wash/dry cycles <sup>2</sup>	Typical Applications & Industries <sup>3</sup>
<b>Sew On Fabrics</b>						
8906		500	65% Polyester 35% cotton	<ul style="list-style-type: none"> <li>AS/NZS 1906.4, class R</li> <li>Fabric backing printed with "3M" Scotchlite™ Reflective Material" for easy identification</li> </ul>	x 30 	
8910		500	65% Polyester 35% cotton	<ul style="list-style-type: none"> <li>AS/NZS 1906.4, class R</li> <li>Fabric backing printed with "3M" Scotchlite™ Reflective Material" for easy identification</li> </ul>	x 50 x 20	  
9910		500	100% polyester	<ul style="list-style-type: none"> <li>AS/NZS 1906.4, class R</li> <li>Abrasion resistant</li> <li>Light industrial washable</li> <li>Fabric backing printed with "3M" Scotchlite™ Reflective Material" for easy identification</li> </ul>	x 100 or  x 50 x 50 	  
9920		500	100% polyester	<ul style="list-style-type: none"> <li>AS/NZS 1906.4, class R</li> <li>Abrasion resistant</li> <li>Industrial washable</li> <li>Fabric backing printed with "3M" Scotchlite™ Reflective Material" for easy identification</li> </ul>	x 100 or  x 50 x 50 	  
<b>Flame Resistant</b>						
8935		500	100% Cotton	<ul style="list-style-type: none"> <li>AS/NZS 1906.4, class R</li> <li>AS/NZS 4824, Wildland firefighting</li> <li>AS/NZS 4967, Structural firefighting</li> <li>Good abrasion and chemical resistant</li> </ul>	x 50 x 30	   
9586		500	Aramid backing	<ul style="list-style-type: none"> <li>AS/NZS 1906.4</li> <li>AS/NZS 4824 "Wildland firefighting"</li> <li>AS/NZS 4967 "Structural firefighting"</li> <li>Good abrasion resistance</li> <li>Fabric backing printed with "3M" Scotchlite™ Reflective Material" for easy identification</li> <li>3M logo on front of product</li> </ul>	x 50 or  x 25 x 30	 
9587		500	Aramid backing	<ul style="list-style-type: none"> <li>AS/NZS 1906.4</li> <li>AS/NZS 4824 "Wildland firefighting"</li> <li>AS/NZS 4967 "Structural firefighting"</li> <li>Good abrasion resistance</li> <li>Fabric backing printed with "3M" Scotchlite™ Reflective Material" for easy identification</li> <li>3M logo on front of product</li> </ul>	x 50 or  x 25 x 30	 

1 Reflective materials can only be certified to AS/NZS standards by accredited independent laboratories.  
 2 Home wash cycles according to ISO 6330 (Method 2A). Dry cleaning according to ISO 3175 (Method 9.1)  
 3 Applications are not limited to the examples below  
 4 Only when applied on compliant fabrics such as certain aramids, modacrylics and FR treated cottons

**Legend:**

= Home Wash	= Industrial Wash	= Dry Clean	= Iron
= High Visibility Vest	= Workwear	= Rainwear	= Police
= Ambulance	= Rescue/Emergency Services	= Oil & Gas Industry	= Water Industry
= Power Industry	= Mining	= Fire Fighting	= Construction

# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor<sup>TM</sup> Communications



3M E-A-R<sup>TM</sup> Peltor<sup>TM</sup> Hearing



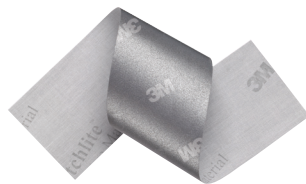
Eye Protection



Head & Face Protection



Speedglas<sup>TM</sup>



Scotchlite<sup>TM</sup>



Sorbents & Spill Management



Vending Solutions



Fast &  
Effective  
for a Safer  
Workplace



## Different Types of Sorbents

**3M™ Oil & Petroleum Sorbents** – for absorbing oil not water. Being hydrophobic (repel water) they are ideal for absorbing oil from areas where water may also be present.

**3M™ Chemical Sorbents** – an ideal solution for hazardous spill control. They provide very high absorption capacities and are suitable for absorbing a very wide range of liquids – even aggressive acids and alkalis.

**3M™ General Purpose Sorbents** – ideal for absorbing oil and other industrial fluids cleanly, safely and efficiently.

**3M™ Floorsweep Sorbent** – is made from biodegradable cellulose based material. It is ideal for indoor and outdoor liquid spills and on floors, roads and other hard surfaces.

**3M™ Sorbents are available in a variety of configurations, so you can choose the format that meets your needs:**

### 3M™ Sorbent Booms

Used to stop the spread of a spill, booms are the first line in spill containment. Once you have booms in place you can then use pads, rolls or pillows to recover the spilt liquids.

### 3M™ Sorbent Pads

Ideal for clean up and recovery of spilt liquids. Pads are used like a wipe and very versatile for getting at hard to reach areas. They may also be left on a spill area to soak up liquids.

### 3M™ Sorbents Rolls

Rolls provide the ability to use the exact amount of sorbents required. You can leave the amount of sorbent needed on the spill to soak up larger areas. They can also be used as matting in dirty areas or where contamination is an issue.

### 3M™ Sorbent Pillows

Ideal for reaching spilt liquids in hard to reach areas such as bilge pumps, drains, sumps and holding tanks.

### 3M™ Folded Sorbents

This versatile product consists of four formats rolled into one. Able to be used as a boom, sheet, pad or pillow, allowing one product to be stocked for almost any liquid spill. Perforations every 40cm permit the required length of sorbent to be selected so there is no waste. The handy dispenser allows easy on-site or off-site use and can be wall mounted.

### 3M™ Floorsweep

Floorsweep is made of biodegradable cellulose material which is presented in a fine granular form.

### 3M™ Spill Response Kits

3M Spill Kits give you the ability to have response materials close to any potential hazard area. Kits contain a combination of sorbents, respirators, protective equipment, contaminated waste bags, instructions and are stored in a bin or cab bag. Many 3M Spill Kits incorporate 3M™ Scotchlite™ Reflective Materials for high visibility in the workplace.

#### Symbol Key

Throughout this brochure you'll notice the symbols shown below. These symbols indicate which sorbents can and cannot be used with different fluids.



For use with petroleum-based products



For use with water-based products



For use with chemical-based products



Not for use with

### Folded Sorbents Application Guide



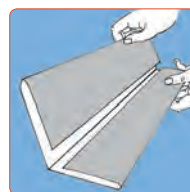
Carry



Tear



Around corner



Unfold



Unopened



Open



# Selecting the Correct 3M™ Sorbent

SELECTION GUIDE		GENERAL PURPOSE SORBENT For use on land	OIL SORBENT For use on land and water	CHEMICAL SORBENT For use on land	FLOOR SWEEP For use on hard surfaces
✔ 3M SPECIALIST SELECTION					
Does the liquid mix with water?	NO		✔		
	YES - Is it corrosive? NO	✔			✔
	YES			✔	
<b>HYDROCARBON OILS</b>					
Fuels, Petrol, Diesel Motor Oils		2nd Selection	✔	3rd Selection	Alternative Solution
<b>WATER SOLUBLE OILS</b>					
Hydraulic Fluids Cutting Fluids		✔	2nd Selection		Alternative Solution
<b>MINERAL OILS</b>					
		2nd Selection	✔	3rd Selection	Alternative Solution
<b>HYDROCARBON SOLVENTS</b>					
Mineral Spirits Xylene Toluene Turpentine Degreaser		3rd Selection	2nd Selection	✔	Alternative Solution
<b>COOLANTS/HEAT TRANSFER FLUIDS</b>					
Ethers Glycols		✔		2nd Selection	Alternative Solution
<b>PAINTS</b>					
		✔		2nd Selection	Alternative Solution
<b>ALCOHOLS</b>					
Ethanol, Methylated Spirits		2nd Selection		✔	Alternative Solution
<b>CHLORINATED SOLVENTS</b>					
Methylene Chloride Chloroform			2nd Selection	✔	
<b>DILUTE ACIDS</b>					
Hydrochloric Acid Hydrofluoric Acid Sulphuric Acid				✔	
<b>DILUTE ALKALIS</b>					
Sodium Hydroxide		2nd Selection		✔	Alternative Solution
<b>AGRICULTURAL CHEMICALS</b>					
Pesticides Weedicides Herbicides		2nd Selection		✔	Alternative Solution
<b>CONCENTRATED ACIDS / ALKALIS</b>					

Call 3M TechAssist 1800 024 464 or email techassist@3m.com



## 3M™ Oil & Petroleum Sorbents



3M™ Oil and Petroleum High Performance Sorbents are an innovative range of highly absorbent products. Being hydrophobic, they repel water and are ideal for absorbing oil and petroleum based fluids from places where water may be present.

These sorbents are available in a wide range of convenient formats - each designed to enhance spill management and maximise pollution control. 3M Oil and Petroleum Sorbents are made from inert, synthetic fibres, principally polypropylene for 'T' oil sorbents and polypropylene and polyester for 'HP'. They are lightweight and dust free and have a high absorption capacity which minimises the amount of waste for disposal.

### Features and Benefits

- + Hydrophobic (repels water)
- + Cost-effective as oil and other petroleum-based fluids, not water, are recovered.
- + Can be used outside as well as in-plant
- + Handy dispenser box for easy on-site use
- + Can be reused, with 90% of the absorbed oil able to be rung out and reclaimed

### Applications

- + In-plant spills under leaking equipment and machinery
- + Controlling, cleaning up and recovering oil and petroleum based liquids from effluent discharge, streams, ponds, lakes, rivers and other bodies of water
- + Ideal for high absorption capacity during oil or petroleum spill or maintenance work



### 3M™ Oil & Petroleum Sorbents

#### 3M™ Oil & Petroleum Sorbent Pad HP156

Easy to apply and retrieve, these pads are highly absorbent and can be used on land and water in numerous clean-up and maintenance applications. Independently tested as the highest absorbing sorbent against six other brands. Test data from "Report on the Testing of Various Sorbent Materials" by Dr Marish Patney on behalf of UTS Pty Ltd for 3M Australia, 29 March 2010.



#### 3M™ Oil & Petroleum Sorbent Roll HP100



#### 3M™ Oil & Petroleum Double Sorbent Pad HP255

Nearly double the thickness of the HP156 pads

*Not available in NZ*



#### 3M™ Oil & Petroleum Large Sorbent Pad T157

Larger sorbent dimensions and capacity than conventional pads

#### 3M™ Oil & Petroleum Folded Sorbent P-FL550DD

Can be used as a boom, pillow, pad or roll. With perforations every 40cm, select length needed, resulting in less wastage.



### Product Overview

Product	Product Number	Dimensions	Capacity	Packaging
Oil & Petroleum Sorbent Roll	HP100	44m x 97cm	277L/roll	1 roll/case
Oil & Petroleum Sorbent Pad	HP156	43cm x 48cm x 0.5cm	1.4L/pad	100 pads/bale
Oil & Petroleum Double Sorbent Pad	HP255	43cm x 48cm x 1cm	2.5L/pad	50 pads/bale
Oil & Petroleum Large Sorbent Pad	T157	96cm x 86cm	6L/sheet	50 sheets/bale
Oil & Petroleum Folded Sorbent	P-FL550DD	45cm x 15m	40L/box	3 boxes/case



# 3M™ Oil & Petroleum Sorbents (continued)



## Features, Benefits and Applications

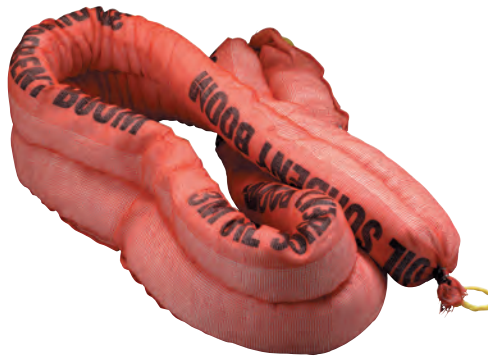
### 3M™ Oil & Petroleum Large Sorbent Boom T270

- + Can be linked together by built connectors to overlap and contain spills and dischargers
- + Designed for long term deployment, these booms have a large absorption capacity and are UV resistant
- + Ideal for large areas such as streams, rivers, lakes and docks



### 3M™ Oil & Petroleum Sorbent Double Boom T280

- + UV resistant, ideal for spills on land and water
- + Flat design minimises escape of oil in flowing water
- + Unique double cylinder construction maximises absorption
- + Features in-built connectors like T270



Not available in NZ

## Product Overview

Product	Product Number	Dimensions	Capacity	Packaging
Oil & Petroleum Large Sorbent Boom	T270	3m x 20cm	76L/boom	4 booms/bale
Oil & Petroleum Sorbent Double Boom	T280	3m x 23cm x 10cm	38L/boom	4 booms/bale
Oil & Petroleum Large Sorbent Pillow	T240	63cm x 36cm	13L/pillow	10 pillows/bale
Oil & Petroleum Mini-Boom	T4	1.2m x 7.5cm	3.8L/boom	12 booms/case
Oil Sorbent Mini-Booms	T12	7.5m x 3.6m	11.3L/boom	4 booms/case

## 3M™ Oil & Petroleum Sorbent Booms & Pillows



### 3M™ Oil & Petroleum Large Sorbent Pillow T240

Open mesh bags are excellent for deployment in spaces such as sumps, boat bilges and catchment areas. Being UV resistant, the T240 pillows are designed for long term use.



### 3M™ Oil & Petroleum Mini-Boom T4

This boom can be used to contain and encircle small spills. The T4 is easy to deploy and can be used in many applications



### 3M™ Oil & Petroleum Sorbent Mini-Boom T12

- Hydrophobic (repels water)
- Can be reused, with 90% of the absorbent oil able to be rung out and reclaimed
- Ideal to contain and encircle medium sized spills

Not available in AU





## 3M™ Oil & Petroleum Spill Kits



3M™ Oil & Petroleum Spill Kits are available in a range of durable, weatherproof containers that can be quickly and easily deployed in case of an oil or fuel spill. These kits contain a variety of oil and petroleum sorbents with varying absorbency capacities to suit different workplace needs.

A selection of personal protective equipment (PPE) is included, as well as spill response procedures. Drum and wheelie bin kits incorporate 3M™ Scotchlite™ Reflective Materials for high visibility in the workplace.

### 3M™ Oil & Petroleum Spill Kit - OSRK-190

- + Capacity to absorb 190 Litres
- + Ideal for keeping handy where large spills have the potential to occur such as fuel storage areas, loading docks, manufacturing sites and other areas where fuels and petroleum liquids are present.

*Not available in NZ*



### Other 3M™ Oil & Petroleum Spill Kits



### 3M™ Oil & Petroleum Spill Kit - OSRK-45

Capacity to absorb 45 Litres  
Easily stored and excellent for use where there is a potential for smaller petroleum and oil spills to occur

*Not available in NZ*



### 3M™ Oil & Petroleum Spill Kit - SRCB-Petro

Capacity to absorb 25 Litres  
Compact and lightweight, this kit is designed to contain a small oil or fuel spill and can be easily stored in the cabin of transport vehicles for quick deployment.

*Not available in NZ*

### Product Overview

Kit Contains	SRCB-Petro	OSRK-45	OSRK-190
Oil & Petroleum Sorbent Pads HP156	10	17	25
Oil & Petroleum Mini Sorbent Booms T4	4	6	-
Oil & Petroleum Double Booms T280	-	-	2
Oil & Petroleum Folded Sorbent Rolls P-FL550DD	-	-	2
3M™ Disposable Half Face Respirator 4251 (A1P2)	1	1	2
3M™ Fahrenheit™ Safety Goggles	1	1	2
Solvent and Oil Resistant Gloves	1	1	2
3M™ 4530+ Disposable Coveralls XL	1	1	2
Contaminated Waste Bag	1	1	5
Cabin Bag	1	-	-
Storage Drum	-	1 (60L)	-
Wheelie Bin	-	-	1 (240L)
Spill Response Procedures	1	1	1



# 3M™ Oil & Petroleum Economy Range

## Features, Benefits and Applications

### 3M™ Oil & Petroleum Economy Performance Sorbent 200 Pad EP156, 120L

- + Hydrophobic (repels water)
- + Economical
- + Ideal for cleaning up small to medium land based spills

*Not available in NZ*



### 3M™ Oil & Petroleum Economy Range



### 3M™ Oil & Petroleum Economy Performance Sorbent Roll EP100, 137L

- Hydrophobic (repels water)
- Economical
- Idea for small to medium land based spills
- Suitable for laying down under an areas when working with oils and fuels

*Not available in NZ*

## Product Overview

Product	Product Number	Dimensions	Capacity	Packaging
3M Oil & Petroleum Economy Performance Sorbent 200 Pad EP156, 120L	EP-156	43cm x 48cm	120L	200 pad/case
3M Oil & Petroleum Economy Performance Sorbent Roll EP100, 137L	EP-100	44m x 97cm	137L	1 roll/case



## 3M™ Chemical Sorbents



3M™ Chemical Sorbents are the ideal solution for hazardous spill control. Available in a wide range of formats – including our spill kits – they provide very high absorption capacities and are suitable for absorbing a very wide range of liquids – even aggressive acids and alkalis. 3M chemical sorbents are convenient and rapid to deploy, which are major considerations in an emergency.

### Features and Benefits:

- + Promotes safety on the site
- + Immediate response to chemical spillages
- + Fast and effective containment and clean-up
- + Suitable for use with most chemicals
- + Available in several formats including mini-booms, pillows, pads and rolls
- + Products have a high capacity
- + Can be used with many aggressive chemicals\*

### Applications:

- + While handling/transferring chemicals
- + For use in chemical industry, laboratories and hospitals

Refer 3M Chemical Compatibility chart and / or 3M TechAssist for chemical interactions.



### 3M™ Chemical Sorbents

#### 3M™ High Performance Chemical Pad C-PD914DD

Packaged in convenient disposable box, these pads are ideal for small spills and wiping down contaminated tools and equipment. Pads have a scrim liner for added strength.



#### 3M™ High Performance Chemical Roll C-RL15150DD

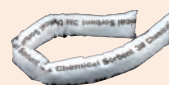
Scrim liner for added strength. Designed to cover large areas. A cost-effective method of spill control, allowing users to tear off desired amount.

*Not available in NZ*



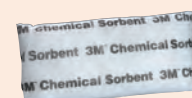
#### 3M™ Chemical & Universal Folded Sorbent C-FL550DD

Able to be used as a boom, sheet, pad or pillow. Allows one product to be stocked for almost any fluid spill. Perforations every 40cm allow the required length.



#### 3M™ Chemical Sorbent Mini-Boom P200

Lightweight and easy to deploy, can be used to contain and encircle small spills.



#### 3M™ Chemical Sorbent Pillow P300

Can be placed at the source of a spill or used to clean up a contained spill.

### Product Overview

Product	Product Number	Dimensions	Capacity	Packaging
High Performance Chemical Pad	C-PD914DD	23cm x 36cm	590ml/pad	25 pads/box
High Performance Chemical Roll	C-RL15150DD	45m x 38m	117L/roll	1 roll/case
Chemical & Universal Folded Sorbent	C-FL550DD	45cm x 15cm	40L/box	3 boxes/case
Chemical Mini Boom	P200	1.2m x 7.5cm	3.8L/boom	12 booms/case
Chemical Pillow	P300	23cm x 38cm	2L/pillow	16 pillows/case



## 3M™ Chemical Spill Kits

3M™ Chemical Spill Kits are available in a number of configurations.

These kits contain a variety of chemical sorbents with varying absorbency capacities and Personal Protective Equipment.

### 3M™ Chemical Response Spill Kit 1.5L, DSRK-DP

- + Comes in a dispenser box, with 3M™ Command Strips for wall mounting
- + A unique design that allows safer clean up - with less risk of injury
- + A specially designed brush - that means no need to handle glass
- + A closable dust pan reduces exposure to broken glass



Not available in NZ

### Product Overview

Kit Contains	SRP-Chem	SPK10	DRSK-DP
Chemical Sorbent Pads C-PD914DD	10	-	-
Chemical Mini Sorbent Booms P200	3	-	-
Chemical Pillows P300	-	-	-
Chemical Folded Sorbent Rolls C-FL550DD	-	1/4	-
Folded sorbent sheets C-FL550DD	-	-	2
Disposable Half Face Respirator 4277 (A1B1E1P2)	-	1	-
3M™ Fahrenheit™ Safety Goggles	-	1	-
Solvent and Oil Resistant Gloves	-	1	1
Contaminated Waste Bag	1	1	1
Plastic Bucket with Lid	1	1	-
Dustpan and Shovel	-	-	1
Spill Response Procedures	1	1	1

### Other 3M™ Chemical Spill Kits



#### 3M™ Chemical Spill Pack- SRP-Chem

Capacity to absorb 17 Litres  
(2 kits/case)

- Suitable for use in laboratories, universities, hospitals, shipping docks and other areas where chemical are stored or transferred.

Not available in NZ



#### 3M™ Chemical Sorbent Spill Kits - 10L, SPK10L

- Suitable for small spills
- Ideal for laboratories & hospitals where small amounts of chemicals are stored

Not available in Australia



## 3M™ Chemical Spill Kits (continued)



### 3M™ Chemical Spill Kit– CSRK-180

- + Capacity to absorb 180 Litres
- + Designed for larger chemical spills. Includes range of PPE

Not available in NZ



### Product Overview

Kit Contains	CSRK-180	CSRK-35	SRCB-Chem
Chemical Sorbent Pads C-PD914DD	-	20	20
Chemical Mini Sorbent Booms P200	12	6	3
Chemical Pillows P300	8	2	2
Chemical Folded Sorbent Rolls C-FL550DD	3	-	-
Disposable Half Face Respirator 4277 (A1B1E1P2)	2	1	1
3M™ Fahrenheit™ Safety Goggles	2	1	1
Solvent and Oil Resistant Gloves	2 pairs	1 pair	1 pair
3M™ 4510 Disposable Coveralls XL	1	1	2
Contaminated Waste Bag	5	1	1
Cabin Bag	-	-	1
Storage Drum	-	1 (60L)	-
Wheelie Bin	1 (240L)	-	-
Spill Response Procedures	1	1	1



### 3M™ Chemical Spill Kit - CSRK-35

Capacity to absorb 35 Litres  
Small, easy to store  
Ideal for areas where smaller amounts of chemicals are shipped, stored or transferred  
Includes range of PPE

Not available in NZ



### 3M™ Chemical Response Cabin Bag - SRCB-Chem

Capacity to absorb 25 Litres  
Compact and lightweight, this kit can be easily stored in transport vehicles for quick deployment.

Not available in NZ



# 3M™ General Purpose Sorbents



For leaks and drips of non aggressive fluids, 3M General Purpose sorbents (sometimes referred to as maintenance sorbents), are ideal for absorbing oil and other industrial fluids cleanly and efficiently. The High Performance Range is lightweight and very quick to deploy. They are long lasting and highly absorbent (up to 25 times their own weight) absorbing most fluids very quickly.

General purpose sorbents by 3M are made from inert, synthetic fibres principally of polypropylene and polyester. They are available in several formats and are lightweight and dust free. They have a high absorption capacity which minimises the amount of waste for disposal.

## Features and Benefits:

- + Promotes a cleaner, safer working environment.
- + Very easy to use and to retrieve.
- + Reduces the risk of contamination of finished products.
- + Reduces the risk of damage to valuable machinery.
- + Significantly less waste to dispose of.



## Applications:

- + Industrial machinery leaks, drips, spills and splashes of non-aggressive fluids.
- + Wiping down oily tools and equipment.
- + Tabletops and under work surfaces.
- + Indoor vehicle/equipment parking areas – fork trucks, compressors, and lift equipment.
- + Areas where an oily mist is problematic.
- + Under oily machined metal parts while they drip off prior to packing and shipping.



## 3M™ General Purpose Sorbents

### 3M™ General Purpose Sorbent Pad - M-PD1520DD

Suited for placing under and around machines to catch drips, these pads can be used to soak up spilled liquids. Can also be used as a highly absorbent wipe and are versatile for getting to hard to reach areas.

### 3M™ General Purpose Roll M-RL38150DD, 287L

- Ideal for small to medium land based spills
- Ideal for masking areas from over spray
- Economical

*Not available in NZ*



### 3M™ General Purpose Folded Sorbent- M-FL550DD

Able to be used as a boom, sheet, pad or pillow, it allows one product to be stocked for almost any fluid spill. Perforations every 40cm allow the required length to be torn off and used.



### 3M™ Sorbent Boom - M-MB308

Because of their tube-like shape, these booms are typically used to encircle spills and to contain leaks. Also ideal for placing in, under and around machines to stop those annoying leaks.

## Product Overview

Product	Product Number	Dimensions	Capacity	Packaging
General Purpose Sorbent Pad	M-PD1520DD	40cm x 52cm	1.4L/pad	100 pads/case
3M™ General Purpose Roll	M-RL38150DD	96cm x 45m x 96cm	287L	1 Roll
General Purpose Sorbent Boom	M-MB308	2.4m x 7.5cm	7.5L/boom	6 booms/case
General Purpose Folded Sorbent	M-FL550DD	45cm x 15m	40L/box	3 boxes/case



## 3M™ General Purpose Spill Response Kits



Having a 3M™ General Purpose Spill Kit handy provides the ability to have economical response materials close to any potential hazard area and enhances your capacity to contain spills quickly and safely. Available in three configurations, these convenient kits each contain a carefully selected variety of 3M General Purpose Sorbents designed for control of accidental and routine leaks, drips and spills of oils, lubricants and other non-aggressive liquids commonly found in industry.

All kits incorporate 3M™ Scotchlite™ Reflective Material for high visibility in the workplace.

### 3M™ General Purpose Cabin Bag - SRCB-Gen

- + Capacity to absorb 35 Litres
- + Compact, highly visible and weather proof
- + Designed to be fitted in transportation vehicles
- + Ideal for recovery of small, unexpected spills.

Not available in NZ



### 3M™ General Purpose Spill Kits



#### 3M™ General Purpose Spill Kit- MSRK-130

Capacity to absorb 130 Litres

- Easy to deploy, highly visible, medium size wheelie bin
- Ideal for workshops and liquid transfer points

Not available in NZ

### Product Overview

Kit Contains	SRCB-Gen	MSRK-130	MSRK-210
General Purpose Sorbent Pads M-PD1520DD	20	25	50
General Purpose Sorbent Booms M-MB308	1	2	3
General Purpose Folded Sorbent M-FL550DD	-	1	2
Contaminated Waste Bag	1	1	5
3M™ 4510 Disposable Coveralls XL	-	1	1
3M™ Floorsweep	-	1	1
Solvent & Oil Resistant Gloves	1	1	2
Weather proof zippered bag	1	-	-
Wheelie bin	-	1 (120L)	1 (240L)
Spill Response Procedures	1	1	1



#### 3M™ General Purpose Spill Kit- MSRK-210

Capacity to absorb 210 Litres

- Easy to deploy, highly visible, larger size wheelie bin
- Ideal for warehouses, factories and workshops

Not available in NZ



## 3M™ Floorsweep Sorbent

Floorsweep is ideal for indoor and outdoor general liquid spill removal on floors, roads and other hard surfaces. This easy to apply sorbent is perfect for use in warehouses, factories and workshops. Floorsweep can be used to absorb a wide range of fluids, including: fuels, mineral oil, hydraulic fluids, coolants and water based fluids.

Floorsweep is made of a biodegradable cellulose based material which is presented in a finely divided granular form.

### Features and Benefits:

- + 10kg easy to handle recyclable polybag
- + Biodegradable material as per OECD guidelines
- + Made in Australia
- + Cost effective

### Applications:

- + Automotive and mechanical workshops
- + Warehouses and factories
- + Ideal for the removal of fuels, mineral oil, hydraulic fluids, coolants and water-based fluids
- + Use on hard surfaces



### 3M™ Floorsweep Sorbent FLS-10

Packaging: 10kg per bag/60 bags per pallet

*Not available in NZ*

*Not to be used with aggressive liquids including caustics, acids, oxidizers and reactive chemicals*





# Slip Resistant Tapes & Treads

## 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads

Self adhesive, mineral and non mineral coated tapes to help minimise slips and falls.

### Features and Benefits:

Help address falling risks by taking simple steps to provide slip-resistant surfaces where safety may be a concern. Install 3M™ Safety-Walk™ Treads to provide traction on slippery surfaces and help meet OSHA and ADA coefficient of friction requirements.

The prevention of slips and falls and the creation of a safe walking surface is a necessity in the design and construction of buildings and adjacent areas. This is also an important consideration in the manufacture of heavy equipment, machinery and trailers as well as in the design of sports and leisure equipment and vehicles. Special slip-resistant material should also be considered in and around wet areas such as showers, bath tubs, locker rooms, pools and hot tubs where barefoot traffic is present and firm-footing will help minimize slips and falls on slick surfaces.

As a leading global manufacturer of slip-resistant products, 3M offers a full range of functional, slip-resistant materials designed for the safety of people in the workplace. These mineral and non-mineral coated products are suitable for industrial or residential applications in dry, wet or oily conditions. 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads adhere to clean, dry surfaces without wrinkling, curling, tearing, shrinking or lifting and offer proven durability for long life. Pressure sensitive adhesive backing makes it easy to apply tapes and treads without the use of anchoring. 3M™ Safety-Walk™ products meet or exceed the standards and recommended guidelines for slip resistance in accordance with ASTM requirements.



<p><b>Commercial &amp; Home</b></p>		<p><b>General Purpose 600 Series</b> <i>mineral-coated polyester, slip-resistant material</i></p> <p>Ladders • Step Stools • Lawnmowers • Marble, Tile and Concrete Floors • Produce, and Deli Sections in Supermarkets</p>
<p><b>Food Service</b></p>		<p>Dishwashing, Laundry and Garbage Disposal Areas • Food Areas • Cafeterias and Dining Rooms • Food-processing Plants and Meat-cutting Stations • Walk-in Coolers/Freezers</p>
<p><b>Health Care</b></p>		<p>Ramps • Heavy Traffic Corridors • Waiting Rooms • Laboratories • Surgical Suites • Emergency Rooms</p>
<p><b>Industrial Facilities</b></p>		<p>Ramps • Freight Elevators • Loading Docks • Stairs and Stairwells • Ladders • Catwalks • Fire Escapes • Warehouse Floors • Facility Entrances</p>
<p><b>OEMs</b></p>		<p>Cranes, Forklifts and Other Construction Equipment/Vehicles • Walkboards</p>
<p><b>Sports &amp; Leisure</b></p>		<p>Golf Carts • ATVs • Snowmobiles • Skateboards • Running Boards</p>



## 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads Selection Guide

<b>Conformable 500 Series</b> <i>mineral-coated moldable aluminum foil, slip-resistant material</i>	<b>Medium Resilient 300 Series</b> <i>non-mineral, medium textured, slip-resistant vinyl</i>	<b>Fine Resilient 200 Series</b> <i>non-mineral, fine textured, slip-resistant vinyl</i>
<ul style="list-style-type: none"> <li>Steps • Stairwells</li> <li>• Doorways • Ladders and Ladder Rungs • Step Stools • Lawnmowers</li> </ul>	<ul style="list-style-type: none"> <li>Around Hot Tubs and Pools • Sun Decks, Balconies • Boats and Boat Docks • Locker Rooms</li> </ul>	<ul style="list-style-type: none"> <li>Bathtubs and Showers</li> <li>• Around Hot Tubs and Pools • Wet or Barefoot Areas</li> </ul>
Walkboards	—	—
Ramps/Loading Ramps	<ul style="list-style-type: none"> <li>Wheelchairs and Crutches</li> <li>• Patient Bathroom Areas</li> <li>• Grab Bars</li> </ul>	Around Therapy Tubs and Saunas
<ul style="list-style-type: none"> <li>Ramps • Freight Elevators • Loading Docks • Stairs, Steps and Stairwells • Ladders and Ladder Rungs • Catwalks • Fire Escapes • Platforms • Diamond Plated, Irregular or Contoured Walking Surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Hand Railings, Grab Bars</li> <li>• Locker Rooms</li> </ul>	Showers
<ul style="list-style-type: none"> <li>Cranes, Forklifts and Other Construction Equipment/ Vehicles • Conveyers</li> <li>• Riveted Equipment</li> </ul>	Conveyers	Bathtub and Shower Products
<ul style="list-style-type: none"> <li>Riveted Equipment • Irregular Surfaces or Platforms</li> </ul>	<ul style="list-style-type: none"> <li>Locker Room Floors</li> <li>• Showers • Around Hot Tubs and Saunas • Exercise Equipment • Docks • Diving Boards and Around Swimming Pools • Recreational Boats</li> <li>• Windsurfers • Water Skis • Water Bikes</li> </ul>	<ul style="list-style-type: none"> <li>Showers • Saunas</li> <li>• Personal Watercraft</li> <li>• Surfboards • Around Hot Tubs and Pools</li> </ul>

### 3M™ Safety-Walk™ Slip-Resistant Tapes and Treads Accessoires



#### 3M™ Safety-Walk™ Primer 901

Prepares rough or porous surfaces for proper adhesion prior to application of 3M™ Safety-Walk™ Slip-Resistant material.



#### 3M™ Safety-Walk™ Edge Sealing Compound 902

Protects exposed edges of 3M™ Safety-Walk™ Slip-Resistant materials from excessive moisture or liquids.

## 3M™ Workplace Matting Solutions

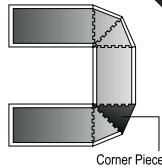


3M offers a range of safety matting options to suit customer needs. A selection is profiled below. Please refer to 3M™ Workplace Matting Solutions brochure for the complete range.

### 3M™ Safety-Walk™ Cushion Mat 3300 with black or yellow edging

- + Backed, modular cushion mat with black or yellow edges for indoor applications.
- + Extremely comfortable due to matrix design and buoyant air pockets.
- + Air pockets provide fatigue relief and good grip.
- + Diamond checker plate design provides excellent grip.
- + Modular to create mat to any length (single, end and centre pieces connect together).
- + Solid surface.

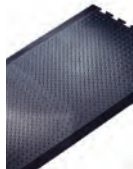
Suitable for: Industrial applications i.e. machine maintenance and repairs, dry goods processing plants and commercial applications where people stand for extended periods.



### 3M™ Safety-Walk™ Welding Matting 5800

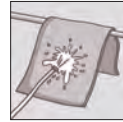
- + Modular mat resists welding flux, can be used in both greasy and dry environments.
- + Specially designed to resist welding flux and grinding sparks of 1300°C to 1500°C for less than 3 seconds.
- + Excellent durability and highly resistant surface for load bearing characteristics.
- + Reduces fatigue during prolonged standing.
- + Modular mat, with end and centre pieces available.

For use in Industrial plants, metal working manufacturers, oil, gas and mining.



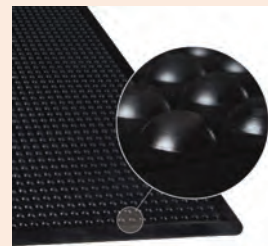
### 3M™ Liner 5900

- + Heavy duty rubber, hard wearing and easy to clean.
- + Stippled backing to allow air to circulate and prevent water collection as a means of rust prevention.
- + Stippled backing prevents mat from moving.
- + The liner is ideal for use in truck trays, small/large ute's and vans.



Easy to clean: shake or wash off with a hose or power washer

### Other 3M™ Safety-Walk™ Mats



#### 3M™ Safety-Walk™ Dome Cushion Mat with black or yellow edging 3500

- Modular mat, backed, rubber anti-slip cushion mat, with black or yellow edges.
- Densely textured surface guards against slips and injuries.
- Excellent comfort and fatigue relief from periods of long standing.
- Rolls quickly for easy cleaning.
- Protects floors from dropped utensils and tools.

Suitable for: Industrial applications i.e. machine maintenance and repairs, Dry goods processing plants and commercial applications where people stand for extended periods – retail counters sales.



#### 3M™ Safety-Walk™ Cushion Matting 5270

- Textured, solid top surface, anti-fatigue cushion mat.
- Spring-coiled vinyl compresses uniformly and continually, helping provide greater comfort and less fatigue.
- Textured top surface provides a high coefficient of friction for slip resistance.
- Solid top allows debris to stay on top of the mat for easy cleaning.
- Designed for light to medium industrial use.



# 3M™ Workplace Matting Solutions



## 3M™ Safety-Walk™ Cushion Mat 1200 Black or Terracotta Red

- + Unbacked open hole construction mat for wet/greasy areas.
- + Provides comfort and reduces fatigue.
- + Raised surface edges provide safe footing and slip resistance.
- + Safety bevel for smooth traffic and easy cart access.
- + Open hole construction to allow debris and liquids to fall through.
- + Grease resistant terracotta red.
- + Easy to clean, pick up and hose off.



Easy to clean: shake or wash off with a hose or power washer

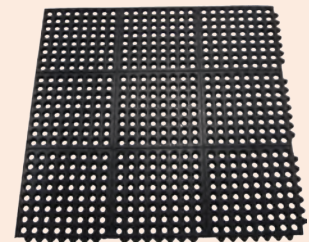
## 3M™ Safety-Walk™ Cushion Matting 4800

- + Modular, unbacked slip resistant mat.
- + Multiple executions for all purpose versatility of applications.
- + Slip resistant top surface provides effective fatigue relief.
- + Open holes to allow debris and liquid to pass through.
- + Modular mat with single, centre and end pieces available.

For use in Industrial plants, manufacturing facilities, engineering workshops, oil and gas and mining.



## Other 3M™ Safety-Walk™ Mats



### 3M™ Safety-Walk™ Link Mat 2400 Black or Terracotta

- Modular square mat pieces can be linked up in minutes.
- Reduces fatigue and improves productivity.
- Standard Black recommended for non-greasy areas & Terracotta Red NBR blends for greasy areas.
- Easy to disassemble and reassemble to clean the floor. Easy to clean, hose down.
- Open construction to allow debris and liquid to fall through.
- Able to configure mat to suit area layout.
- Yellow ramp edging available



### 3M™ Safety-Walk™ Cushion Matting 5100

- Unbacked, vinyl Z-web cushion mat.
- Rigid vinyl Z-web construction provides firm support and allows cart traffic.
- Open Z-web design allows liquids and small debris to fall through.
- Ideal for the workplace where people stand for extended periods of time.
- Designed for light industrial and light to medium commercial applications.



Black

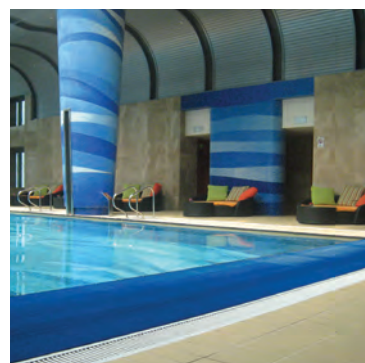
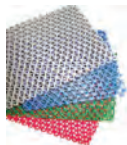


Quarry Tile Red

## 3M™ Nomad™ Z web Medium Traffic Scraper Matting 3000

- + Unbacked, vinyl matting for wet areas.
- + Resilient vinyl 'Z' web construction.
- + Suitable for barefoot traffic.
- + Excellent for locker rooms, around saunas, spa's, pools and shower areas.
- + Open construction allows water to run through the mat.
- + Resistant to fungus, mildew, body oils and chemicals.

Assorted colour options available



# The Power to Protect Your World<sup>SM</sup>



Disposable Respiratory



Reusable Respiratory



Powered & Supplied Air Solutions



Disposable Coveralls



Peltor™ Communications



3M E-A-R™ Peltor™ Hearing



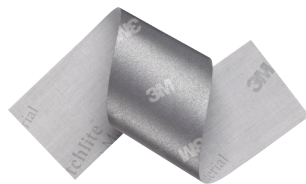
Eye Protection



Head & Face Protection



Speedglas™



Scotchlite™



Sorbents & Spill Management



Vending Solutions

# 3M™ Vending Solutions



Control  
Inventory  
and increase  
Productivity

The power to protect your world.™



# 3M™ Vending Solutions

A diversified technology company, 3M is one of the world's leading manufacturers of a broad range of personal protective equipment, industrial, manufacturing, electrical, construction, office supplies and health care products.

For more than a century, innovation has been the hallmark of 3M's growth, reflecting a culture of shared ideas and technology. 3M innovation enables us to continuously deliver practical and ingenious solutions to meet customer needs.

One example of this is 3M™ Vending Solutions which offers customers an effective method to dispense essential products on site 24 hours a day, seven days a week. This form of controlled vending also provides customers with substantial cost-savings, increased productivity and process improvements.

We have vending machines tailored to meet the needs of small, medium and large businesses. Our machines are market proven, reliable and simple to use - all key features 3M customers expect from our products.

## Ideal for a variety of industries, including:

- Mining
- Oil & Gas
- Construction
- Manufacturing
- Factories and Warehouses
- Airlines
- Maintenance Workshops
- Automotive Body Repair Shops
- Healthcare - Hospitals, Labs, etc.
- Mobile Warehousing
- Office Supplies for all industries



3M Vending Machines are located at hundreds of mine sites, factories and many other types of businesses.



# Customer Benefits

## Substantial Cost Savings

- Controlled distribution and usage of PPE and industrial consumables by eliminating product waste and unauthorised usage
- Reduction in procurement/stores costs
- Reduces inventory costs
- Ability to identify contractors provides the option to back charge for product usage
- Option to lease or buy machine(s)
- Rental agreement includes ongoing maintenance and servicing

## Increases Productivity

- Continual supply of essential products, 24/7, 365 days a year
- Machines can be placed wherever required, not limited to one location in the store
- Reduces labour required for physical inventory
- Safety and industrial consumables can be co-located at one point of use

## Process Improvements

- Automated and customised product usage reports can be used for inventory management, budgeting, cost recharge and operation/production reviews
- Improved access control and user accountability
- Protects consumables from dust and damage
- Assists with PPE compliance

## Simple and Easy to Use



### Step 1.

Locate required item



### Step 2.

Swipe card (machine can also be configured to swipe tags)



### Step 3.

Enter item code



### Step 4.

Collect item from bin

Protects  
Consumables  
from dust  
and Damage



# 3M Vending Machines can Dispense a Wide Range of Products

3M vending machines can be configured to dispense a variety of products. We offer a wide range of PPE, industrial, electrical, office and healthcare products that are suitable for these machines.

## Products that can be dispensed from 3M Vending Machines include:

### Personal Protective Equipment

- Protective Eyewear
- Respirators, filters and cartridges
- Earplugs
- Earmuffs
- Protective Coveralls
- Safety vests
- Gloves
- Sunscreen, insect repellent and more



### Other Consumables

- Hand tools – pliers, shifters, etc.
- Abrasives and grinding discs
- Batteries
- Allen keys
- Stationery supplies
- Knives and blades
- Tape measures
- Labeller Cartridges
- Tapes, including adhesive, masking and electrical
- First aid supplies



# Automated Reporting

3M has developed a web-based maintenance and monitoring software system that has the capability to control and monitor our vending machines. This system tracks and monitors all transactions - by employee, machine, product, etc. From this data, the customer can generate their own usage reports.

## Advantages of 3M's Vending machine reporting system:

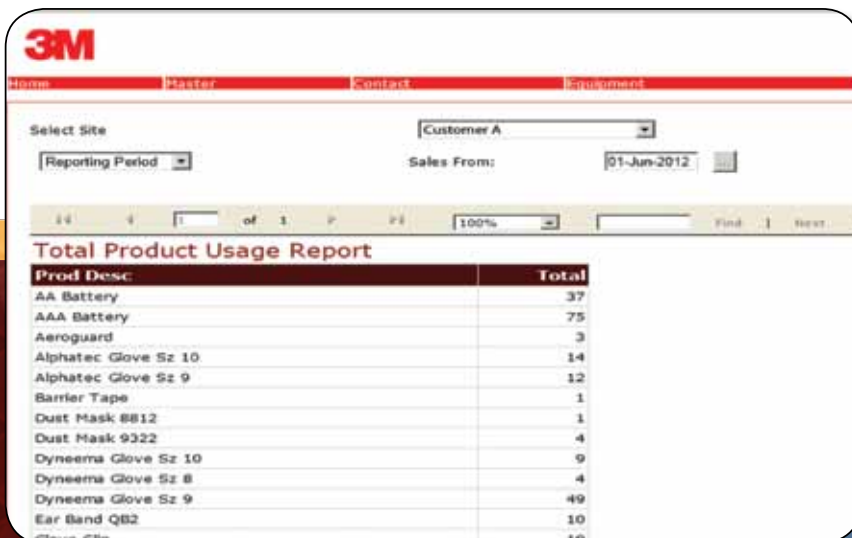
- Real time internet based data transfer allows for instantaneous reporting
- Automated pick lists for vendor management teams
- Automated SMS alerts for stock-outs
- Automated alerts for excessive usage
- Ability to integrate with existing maintenance systems
- Custom designed reports
- Ability to integrate with customers' existing maintenance and access systems
- Where network connectivity is not available, 3M machines can function as stand-alone units and manually download usage reports as required by using a flash drive

## Radio Frequency Identification (RFID) Integration

Radio Frequency Integration is critical to successful machine placements. The ability to interact with a customer's existing site access system removes the requirement for an extra database to be created and maintained. Upon the customer's request, 3M has been able to decode many different access systems.

If your site does not have a current access system, 3M can provide tags or swipe cards to control access and identify users.

## Example of a total product usage report



Prod Desc	Total
AA Battery	37
AAA Battery	75
Aeroguard	3
Alphatec Glove Sz 10	14
Alphatec Glove Sz 9	12
Barrier Tape	1
Dust Mask 8812	1
Dust Mask 9322	4
Dyneema Glove Sz 10	9
Dyneema Glove Sz 8	4
Dyneema Glove Sz 9	49
Ear Band QB2	10
Glove Film	19





## Training and Support

3M's team of Specialist Representatives are available nationally, to provide support and training that meet the needs of our customers.

Furthermore, our qualified and highly experienced team are able to assist customers by:

- Conducting initial and ongoing assessments of the workplace.
- Recommending appropriate respiratory, hearing, eye protection, communication and spill management solutions required to maintain a safe work environment
- Providing technical advice about the correct use and maintenance of the solution that has been selected
- Facilitate on-site fit testing for both respiratory and hearing protection solutions, as required

No matter how effective a piece of Personal Protective Equipment (PPE) is, it will offer little or no protection if it is not fitted and/or worn correctly. Proper inspection, cleaning and storage is vital for safety equipment that protects a worker's health and well-being.

That is why we offer training programs that explain the correct way to fit, inspect, clean and store the PPE designed and manufactured by 3M.

## Technical Assistance

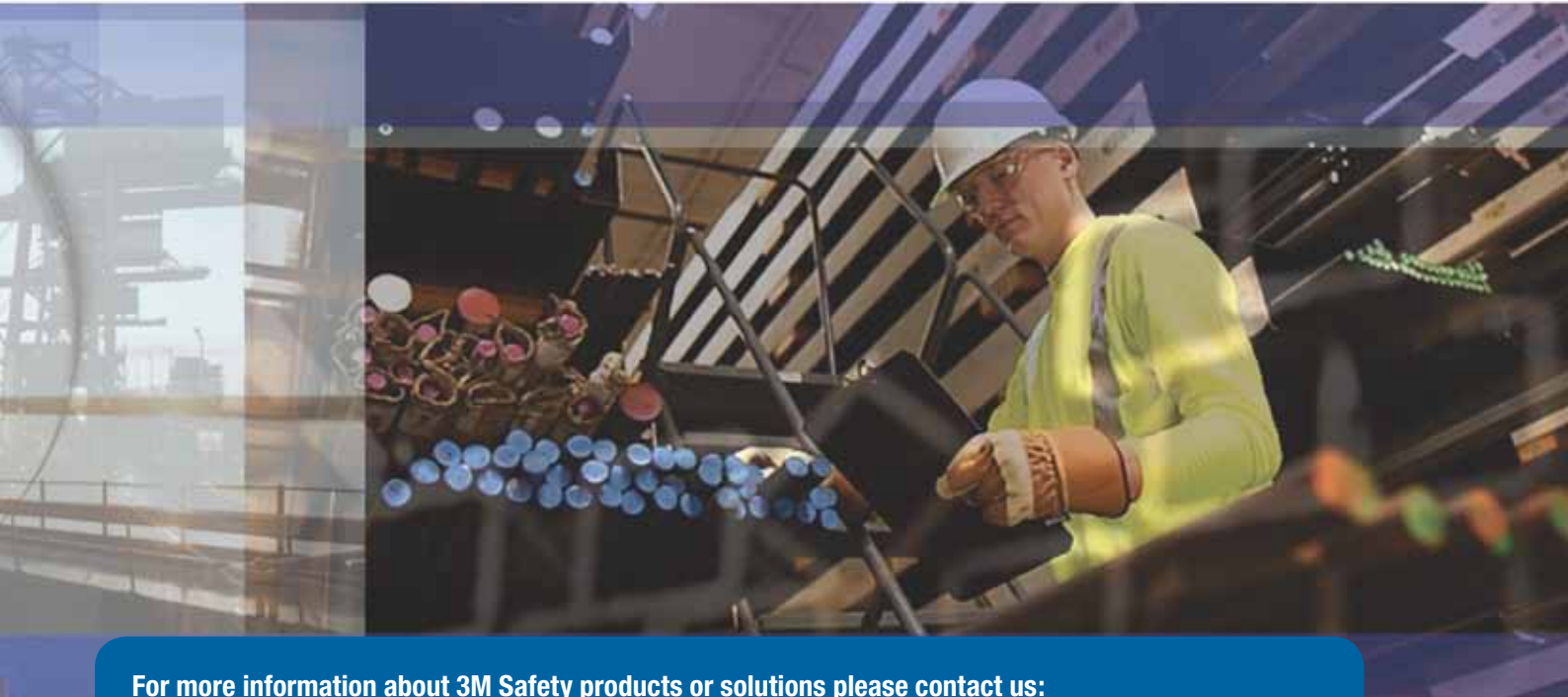
3M TechAssist is the ideal point of contact for your questions, especially when you require a prompt answer. Supported by trained staff, TechAssist is an immediate link to the worldwide resources of 3M.

Customers can contact TechAssist to answer questions on product information, technical advice, guidance with product selection, Australia/New Zealand Standards and other important information they need to know on a day-to-day basis.

See back cover for Technical Assistance contact details.

## ANZ Distributor network

3M distributes our wide range of workplace safety products through a network of distributors, resellers and retailers throughout Australia and New Zealand.



**For more information about 3M Safety products or solutions please contact us:**

**AUSTRALIA**

TechAssist Helpline 1800 024 464  
TechAssist Email [techassist@mmm.com](mailto:techassist@mmm.com)  
Customer Service 1300 363 565  
Website [www.3m.com/au/PPESafety](http://www.3m.com/au/PPESafety)



**NEW ZEALAND**

TechAssist Helpline 0800 364 357  
Customer Service 0800 252 627  
Website [www.3m.com/nz/PPESafety](http://www.3m.com/nz/PPESafety)



If you would like to be notified of updates to our product catalogues, [please click here to subscribe.](#)



**Personal Safety Division**

3M Australia Pty Limited  
Building A, 1 Rivett Rd  
North Ryde NSW 2113

© 3M 2013. All rights reserved.  
3M, E-A-R, Peltor, Speedglas,  
Scotchlite and Quest are trademarks  
of 3M Company. Please recycle.