



Safety



Directory



Putting Safety First

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Our simple three-step guide

to choosing the right disposable respirator



Introduction

As one of the world's leading suppliers of safety and protective equipment our goal is to ensure that we satisfy your needs through the provision of exceptional leadership, expertise, quality and service excellence. Our success is measured by your success. If we can make your life and that of your workforce easier, healthier, safer and more productive we are moving in the right direction.

We believe that health and safety is first and foremost about safeguarding worker welfare. A secure, safe working environment is paramount in any business. But we also believe that improving worker protection, comfort and productivity is a more ambitious goal. One we firmly believe in.

At 3M we don't take safety for granted. The health and welfare of your workforce depends on it. So by working in association with skilled safety practitioners, partners and customers, our people are committed to ensuring that we help you create an environment that protects your workforce - effectively, efficiently and economically.

Your success is our achievement. To deliver on our commitment requires a culture of accountability, customer inspired innovation, knowledge and expertise, fuelled by a deep understanding of your needs and the safety needs of your workforce.

With our global technology, manufacturing and knowledge network we do more than simply develop products that ensure your workforce can operate in safety and comfort. We go further to provide good design, cross-over product fit, expertise, comprehensive support and a continuously evolving range of product options.

Protection
Comfort
Durability
Productivity

Customer Support

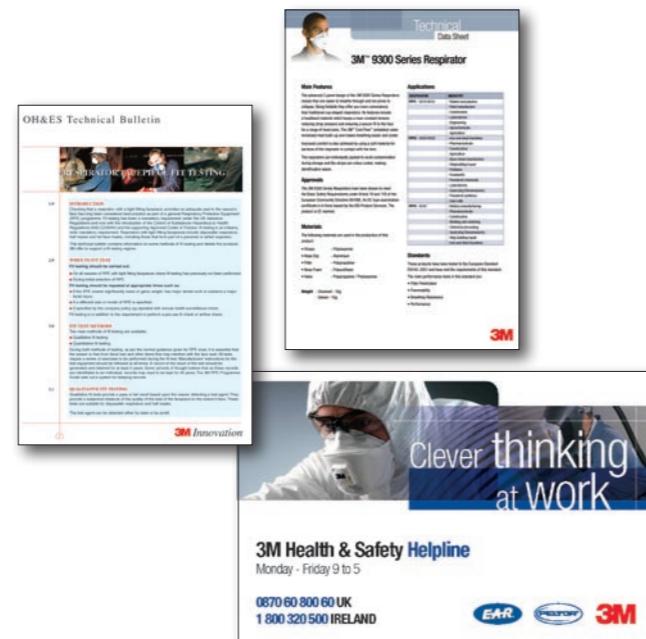
You can buy 3M confident in the knowledge that our products will do the job and more. You can also rest assured that our product range is backed by first class support materials and advice, so you'll always know where to turn.

For advice, information and technical support on the selection and use of Personal Protective Equipment by 3M simply contact our Health and Safety Helpline.

A range of technical literature, posters, selection guides and fact sheets are freely available from the 3M Health and Safety Helpline to help you with your safety requirements.

More information on 3M products and services is available from our website. Downloads, selection guides, contact 3M, where to buy and much more can all be found at www.3M.com/uk/ohes.

On the website you will find the 3M Respirator Product Selector and the 3M Hearing Protection Selector to help you select the most suitable products.



Selecting and specifying the appropriate respiratory protective equipment can seem daunting with so many factors to consider. With our simple three-step selection system however, it's easy to make sure the disposable respirator you choose is offering the correct levels of protection and comfort required by your employees.

STEP ONE Which protection factor suits your needs?

	FFP1 Respirators	FFP2 Respirators	FFP3 Respirators	Speciality Respirators
Protection factor	APF 4	APF 10	APF 20	APF 4 or 10
Typical applications	Low level fine dust/oil or water based mists (hand sanding, drilling and cutting)	Moderate level fine dust/oil or water based mists (plastering, cement, sanding and wood dust)	Higher level fine dust/oil or water based mists (hazardous pharmaceutical powders, biological agents and fibres)	Fine dust/oil or water based mists. Options for metal fume, ozone and nuisance levels of certain gases and vapours dependent on model
Easy identification	Identified by YELLOW straps	Identified by BLUE straps or valve lettering	Identified by RED straps or valve lettering	Protection level can be identified by the strap colour or valve lettering

Classification explained

When correctly used by a wearer who has passed a face fit test, an FFP1 respirator should reduce exposure to airborne particles by a factor of 4, an FFP2 by a factor of 10 and an FFP3 by a factor of 20.

STEP TWO Choose a valved or unvalved respirator?

Benefits of a valved respirator

- Reduces exhalation effort
- Cooler to wear
- Stays comfortable for longer
- Less likely to mist up eyewear

Benefits of a non-valved respirator

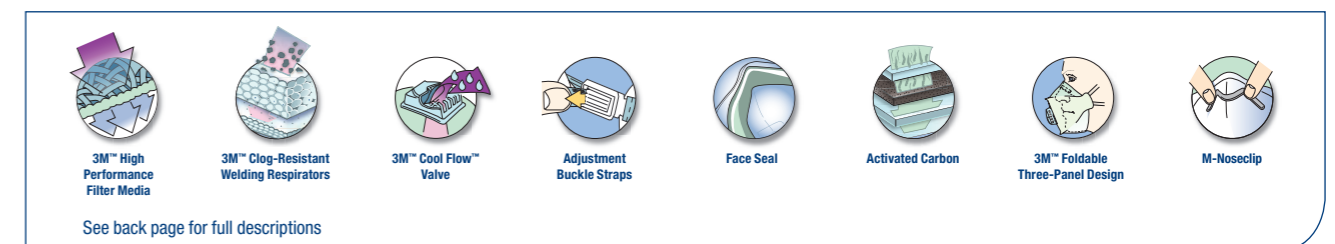
- Lower unit cost
- Prevents the wearer from contaminating their environment

STEP THREE What style?

Choose from our **Classic**, **Comfort** or **Premium** ranges or a **Welding** or **Speciality** respirator for specific applications. Some of our ranges offer a cup-shaped and flat-fold respirator for your preference.

Particulate Respirator Options

		FFP1		FFP2		FFP3
		Unvalved	Valved	Unvalved	Valved	Valved
Premium		–	–	–	8825	8835
Comfort	Cup-shape	8310	8312	8320	8322	8833
	Flat fold	9310	9312	9320	9322	9332
Classic	Cup-shape	8710	8812	8810	8822	–
	Flat fold	K101	K111	K102	K112	K113



Classic Series



Our Classic series offers simple and effective protection against dust and mist. The Classic series includes the traditional 3M™ 8000 Cup-Shaped Respirator Series alongside a convenient flat fold offering (the 3M™ K100 Respirators) for easier storage.

3M™ 8000 Cup-Shaped Respirator Series

Comfort

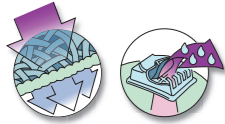
- Traditional convex shape with nose clip and twin strap design
- Comfortable, lightweight and off-the-face design

Safety

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

3M™ Cool Flow™ Valve

- 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
- Available on 3M 8812 and 8822 Cup-Shaped Particulate Respirators only



Available as:

 <p>FFP1 3M™ 8710 Cup-Shaped Particulate Respirator Classification: EN 149:2001 FFP1 APF 4</p>	 <p>FFP2 3M™ 8810 Cup-Shaped Particulate Respirator Classification: EN 149:2001 FFP2 APF 10</p>
 <p>FFP1 3M™ 8812 Cup-Shaped Valved Particulate Respirator Classification: EN 149:2001 FFP1 APF 4</p>	 <p>FFP2 3M™ 8822 Cup-Shaped Valved Particulate Respirator Classification: EN 149:2001 FFP2 APF 10</p>

3M™ K100 Flat Fold Respirators

The 3M K100 Respirators are a basic range of filtering face pieces that can be used in many industries where workers are exposed to dust particles and/or non-volatile liquid particles.

Available as:

 <p>FFP1 3M™ K101 (FFP1 D) Particulate Respirator Unvalved APF 4</p>	 <p>FFP2 3M™ K102 (FFP2 D) Particulate Respirator Unvalved APF 10</p>	 <p>FFP3 3M™ K113 (FFP3 D) Particulate Respirator Valved APF 20</p>
 <p>FFP1 3M™ K111 (FFP1 D) Particulate Respirator Valved APF 4</p>	 <p>FFP2 3M™ K112 (FFP2 D) Particulate Respirator Valved APF 10</p>	

Comfort Series - Flat Fold



Comfort is a key issue when it comes to encouraging employees to wear their respirators consistently for long periods. This series sets new benchmarks in wearer comfort! The Comfort series is available in the advanced three-panel design of the 3M™ 9300 Flat Fold Respirator series as well as the brand new 3M™ 8300 Cup-Shaped Respirators.

3M™ 9300 Respirator Series

Nose Foam

- Made of sweat absorbent material
- Soft on the skin
- Fits well with eyewear to reduce the risk of misting

Flat Fold – 3-Panel Design

- Allows greater facial movement during speech
- Easy to store
- Provides comfort and style without compromising performance

3M™ Advanced Electret Filter Material

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

3M™ Cool Flow™ Valve

- 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
- Available on 3M 9322 and 9332 Particulate Respirators only

Headbands

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

Individual Packaging

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



Available as:

 <p>FFP1 3M™ 9310 Particulate Respirator Classification: EN 149:2001 FFP1 APF 4</p>	 <p>FFP2 3M™ 9320 Particulate Respirator Classification: EN 149:2001 FFP2 APF 10</p>	 <p>FFP3 3M™ 9332 Particulate Respirator Classification: EN 149:2001 FFP3 APF 10</p>
 <p>FFP1 3M™ 9312 Particulate Respirator Valved Classification: EN 149:2001 FFP1 APF 4</p>	 <p>FFP2 3M™ 9322 Particulate Respirator Classification: EN 149:2001 FFP2 APF 10</p>	

Comfort Series - Cup-Shaped



3M™ 8300 Respirator Series

M-Noseclip

- The noseclip is quick and easy for wearers to mould around the nose, offering greater comfort

High Performance Filter Material

- 3M™ Advanced Electret filter material helps wearers to breathe easily for more comfortable protection

3M™ Cool Flow™ Valve

- The Cool Flow Valve reduces heat and moisture build-up to offer workers comfortable protection - even in hot and humid conditions
- Available on 3M 8312, 8322 and 8833 Particulate Respirators only

Robust Outer Shell

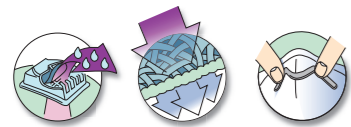
- The shell construction offers users added durability

Cushion-Fit Lining

- The cushioned inner lining helps workers stay comfortable

Braided Headbands

- Materials have been selected for extra comfort and durability
- Colour coded headbands offer easy protection level identification



Available as:



FFP1
3M™ 8312 (FFP1 NR D)
Particulate Respirator
Valved



FFP2
3M™ 8322 (FFP2 NR D)
Particulate Respirator
Valved



FFP3
3M™ 8833 (FFP3 R D)
Particulate Respirator
Valved
Also features
soft inner face seal!



FFP1
3M™ 8310 (FFP1 NR D)
Particulate Respirator
Unvalved



FFP2
3M™ 8320 (FFP2 NR D)
Particulate Respirator
Unvalved

Premium Series



Our Premium Respirators offer enhanced performance and comfort due to a number of additional advanced features including:

- Lightweight and off-the-face design
- Soft facepiece sealing ring
- Exhalation valve to reduce moisture build-up
- 4-point adjustable straps

Soft Inner Face Seal Ring

- Improves face seal
- Increases wearer comfort
- Can be hygienically cleaned if used for longer than one shift (3M™ 105 Face Seal Cleaner)

Robust Shell and Cup Design

- Robust and durable design provides multi-shift capability and a more secure feel

3M™ Advanced Electret Filter Media

- Increased filter area helps extend the life of the respirator
- Higher capacity against dust
- Effective filtration combined with low breathing resistance
- Consistent high quality performance

Colour Coded Valve Lettering

- Easy to recognise protection level by colour coding

3M™ Cool Flow™ Valve

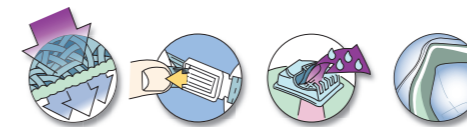
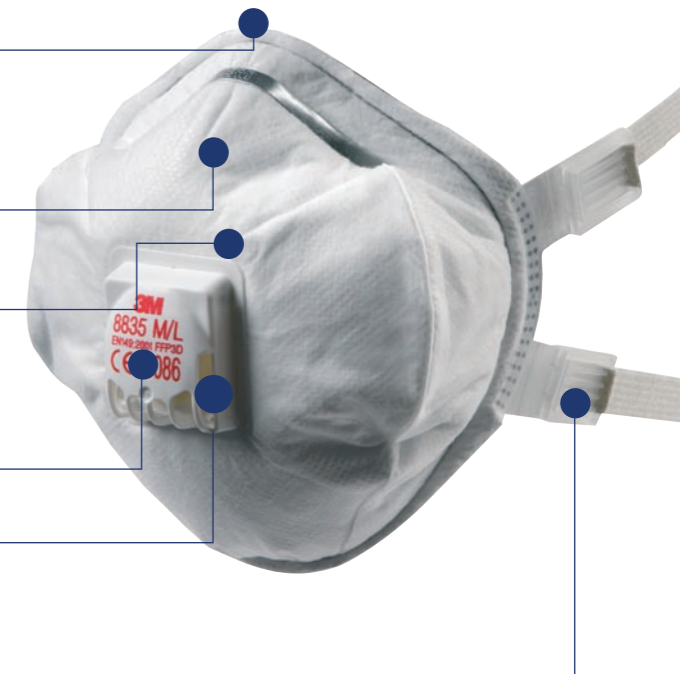
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises the risk of misting eyewear

Adjustable Braided Headbands

- Ensures a more secure feel and provides comfort to face, head and neck

Available in two sizes (8835 Only)

- Small
- Medium/Large



Available as:



FFP2
3M™ 8825
Particulate Respirator
Classification:
EN 149:2001 FFP2 D
Protection:
Dust/Mist/Metal Fume
APF 10



FFP3
3M™ 8835
Particulate Respirator
Classification:
EN 149:2001 FFP3 D
Protection:
Dust/Mist/Metal Fume
APF 20

Speciality Series



The Speciality Respirators by 3M have been developed for particular working environments. These respirators feature an integrated activated carbon layer thus offering relief from nuisance odours below WEL*. They can be used for a wide variety of applications ranging from welding to waste sorting. The Speciality range by 3M provides lightweight, effective, comfortable and hygienic respiratory protection against dust and mist. It also provides additional relief from low levels of organic vapours or acid gases such as sulphur dioxide and hydrogen fluoride (depending on the product type).

Robust Shell and Cup Design

- Conforms well to most face shapes and sizes
- Maintains its shape well during use
- Collapse-resistant

3M™ Advanced Electret Filter Media

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

3M™ Cool Flow™ Valve

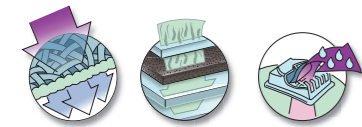
- Effective removal of heat and moisture build-up provides a cooler and more comfortable wear
- Removes exhaled air and minimises the risk of misting eyewear
- Available on 3M 9914, 9922 and 9926 Speciality Particulate Respirators only

Carbon Layer

- Provides protection against nuisance level organic vapours (below WEL*)

Colour Coded Straps

- Easy to recognise performance level by colour coded straps



Available as:

 <p>FFP1 3M™ 9906 Speciality Particulate Respirator Classification: EN 149:2001 FFP1 Protection: Dust/Mist/Nuisance Level Hydrogen Fluoride APF 4</p>	 <p>FFP1 3M™ 9913 Speciality Particulate Respirator Classification: EN 149:2001 FFP1 Protection: Dust/Mist/Nuisance Level Organic Vapour APF 4</p>	 <p>FFP2 3M™ 9926 Speciality Particulate Respirator Classification: EN 149:2001 FFP2 Protection: Dust/Mist/Nuisance Level Acid Gas APF 10</p>
 <p>FFP1 3M™ 9914 Speciality Particulate Respirator Classification: EN 149:2001 FFP1 Protection: Dust/Mist/Nuisance Level Organic Vapour APF 4</p>	 <p>FFP1 3M™ 9915 Speciality Particulate Respirator Classification: EN 149:2001 FFP1 Protection: Dust/Mist/Nuisance Level Acid Gas APF 4</p>	 <p>FFP2 3M™ 9922 Speciality Particulate Respirator Classification: EN 149:2001 FFP2 Protection: Nuisance Level Organic Vapour and Ozone Relief APF 10</p>

*WEL = Workplace Exposure Limit

Welding Fume Series



3M offers two Welding Fume Respirators – the 3M™ 9925 Welding Respirator and the 3M™ 9928 Welding Respirator. Both provide lightweight and comfortable respiratory protection against dust, mist, metal fumes and ozone. The 3M 9928 Model also incorporates a soft face seal.

Robust Shell and Cup Design

- Flame retardant material minimises the effect of welding splatter
- Conforms well to most face shapes and sizes
- Collapse-resistant

Soft Inner Face Seal Ring (9928 Only)

- Provides secure feel
- Improves wearer comfort
- Can be hygienically cleaned (3M™ 105 Face Seal cleaner)

3M™ Cool Flow™ Valve

- 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

Colour Coded Valve Lettering

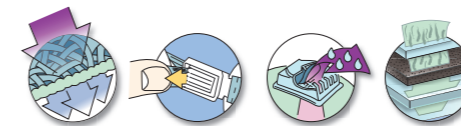
- Easy to recognise protection level (FFP2) by colour coding

Carbon Layer



- Provides protection against ozone gas and relief from nuisance level odours (below WEL*)

Adjustable Braided Headbands


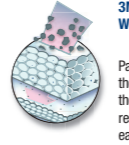

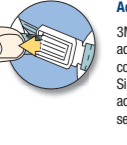
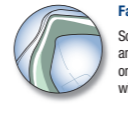
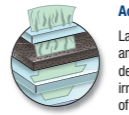


- Help provide comfort to face, head and neck



Available as:

 <p>FFP2 3M™ 9925 Welding Particulate Respirator Classification: EN 149:2001 FFP2 Protection: Dust/Mist/Ozone/ Nuisance level odours APF 10</p>	 <p>FFP2 3M™ 9928 Welding Particulate Respirator Classification: EN 149:2001 FFP2 Protection: Dust/Mist/Ozone/ Nuisance level odours APF 10</p>
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Key:

 <p>3M™ High Performance Filter Media High Performance Filter Media combines the benefits of traditional mechanical filtration with advanced technology filtration to capture particles.</p>	 <p>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.</p>	 <p>3M™ Cool Flow™ Valve An efficient exhalation valve minimises heat and moisture build-up, particularly in hot and humid work conditions.</p>	 <p>Adjustment Buckle Straps 3M™ Universal Buckle adjustment offers a comfortable, and secure feel. Simply pull on the straps to achieve the optimal comfort and security for you.</p>
 <p>Face Seal Soft and secure. The face seal and sweat absorbent nose foam on the 3M™ Soft Seal Respirator will provide greater comfort.</p>	 <p>Activated Carbon Layers of carbon in 3M™ Welding and 3M™ Speciality Respirators are designed to offer relief from the irritation of low levels (below WEL*) of specific gases and vapours.</p>	 <p>3M™ Foldable Three-Panel Design This design offers improved comfort, fit and communication – plus the convenience of a foldable respirator. (9300 series)</p>	 <p>M-Noseclip Noseclip adjusts easily for fewer pressure points and greater comfort on the nose.</p>

In the UK, wearers of these products should be fit tested in accordance with the requirements of the Control of Substances Hazardous to Health Regulations (COSHH).
*WEL = Workplace Exposure Limit

3M supports the Fit2Fit accreditation scheme for fit testers. Visit www.fit2fit.org



3M™ Reusable Respirators



Over prolonged periods of use, 3M reusable respirators offer exceptional value and quality, and all combine unrivalled comfort with ease of use. The guide below is designed to help you select the right mask and filter combination:-

1. Face piece Selection

Half or Full Face Mask?

3M Full Face Masks incorporate integrated eye protection, or if you would prefer separate eye protection, our half-mask range fits well with 3M goggles and spectacles.



Level of Comfort and Maintenance Required?

To ensure that it can be worn over long durations, a reusable respirator needs to be comfortable. The 3M range of half and full face masks incorporate a wide range of features designed to ensure a comfortable fit in a wide variety of applications. In particular, the 3M™ 7500 Series Half Mask features an exceptionally soft face piece material and 3M™ Cool Flow™ exhalation valve to provide an easy to fit, comfortable wear.

The table below should help you select the right mask for your application.

3M Half Mask Range

	Level of Comfort	Availability of Spares	Durability
3M™ 4000 Series	Very Good	None required due to the unique, maintenance free design	Good
3M™ 6000 Series	Very Good	Selected spare parts available	Very Good
3M™ 7000 Series	Good	Full range of spares available	Excellent
3M™ 7500 Series	Excellent	Full range of spare parts available	Excellent

3M Full Face Mask Range

	Level of Comfort	Availability of Spares	Durability
3M™ 6000 Series	Very Good	Selected spare parts available	Good - ideal for lighter weight applications
3M™ 7000 Series	Very Good	Full range of spare parts available	Very Good - ideal for more heavy weight applications

Size?

The fit of a respirator is a crucial element in ensuring the level of protection it can provide. The 3M range of face piece sizes and designs means there's one to suit almost every individual.

2. Filter Selection

To make life easier, the reliable 3M™ Bayonet Filter Fixing System allows the filters to be clicked into place quickly and securely.

Depending on the filter you select, your respirator can protect against particulates, gases and vapours or a combination of the two. The filters are colour coded to aid you in selection and supervision of your workforce.



Particulate filters are white and have blue and red lettering to denote P2 and P3 performance respectively. The gas and vapour and combination filters have bands using the performance colour coding from the European Standard.



Pre-stacked filters can be more costly as when either the particulate component becomes clogged or the gas and vapour component becomes saturated the whole filter must be discarded. The 3M system allows you to change individual component parts as they become exhausted. See the next page for how to assemble a combined system.

3M offers a number of support tools to help you with the process of selecting and maintaining reusable respirators.

See www.3m.com/uk/ohes for our online Filter Selector, where appropriate filters are suggested when you input the hazardous substance you wish to protect against.

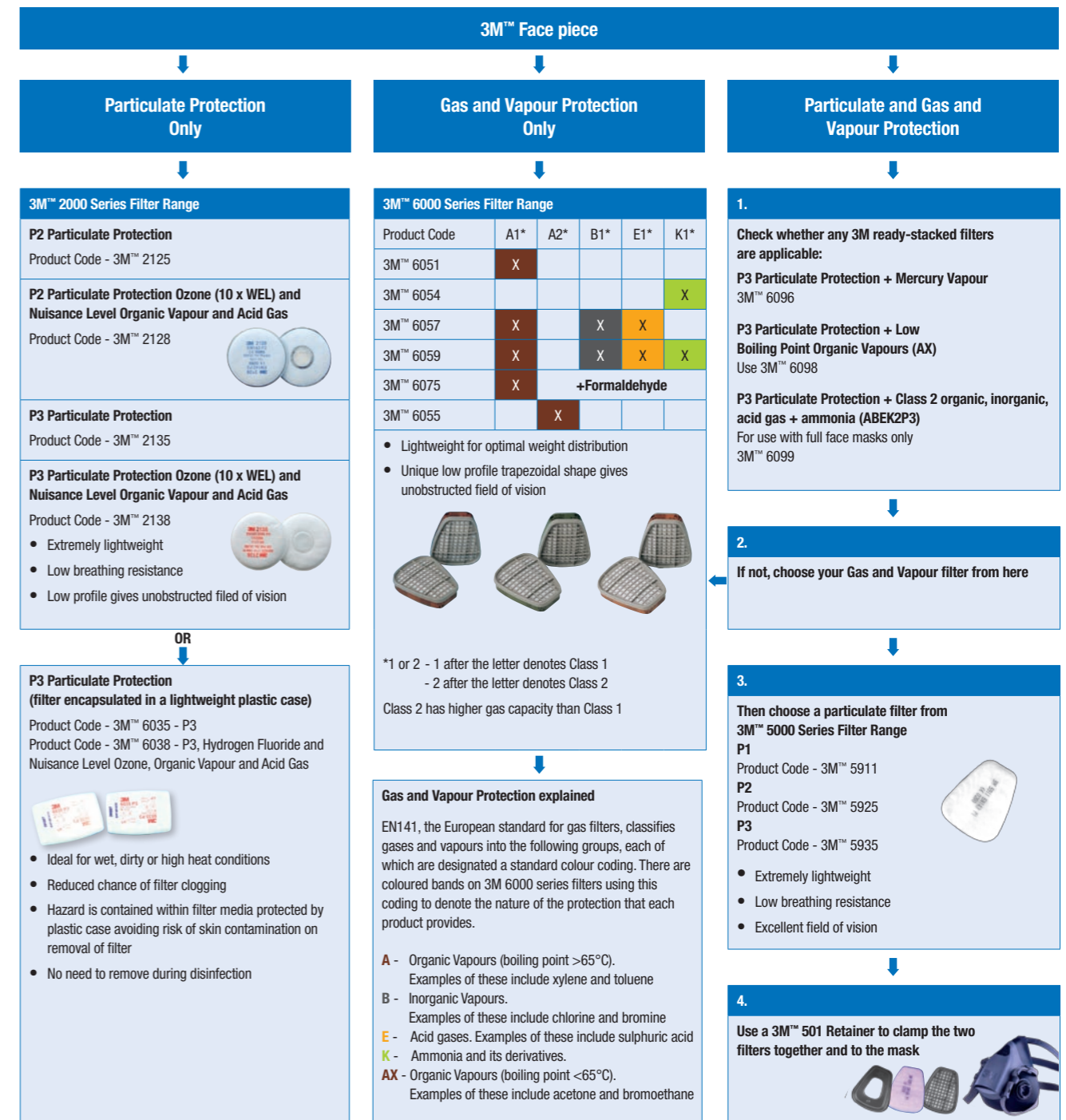
Maintenance records to help you keep track of the life of the respirator are available from our Helpline on:

0870 60 800 60 (UK) 1 800 320 500 (Ireland)



3M™ Filters

The following diagram is designed to help select the correct 3M™ Filter product code for your application. Further guidance can be obtained from our online filter selector at www.3m.com/uk/ohes.



3M™ Reusable Respirators

3M™ Reusable Half Masks

3M™ 7500 Series Premium Comfort Half Masks offer unrivalled comfort and fit due to the exceptionally soft silicone face seal.

Nose Bridge

- Special thin nose bridge that improves flexibility and lowers pressure in this region - the most commonly sited area for face seal discomfort
- A good fit with the 3M™ Eye Protection range

Head Harness

- Reduces pressure on back of head and tension on face
- Drop down capability for when not in use
- Excellent fit with headgear

Soft pliable silicone face seal

- Provides exceptional comfort and performance
- Silicone material provides more flexibility and lighter contact with face
- Fits an extremely broad range of face shapes and sizes
- Weep hole helps eliminate sweat accumulating between face and face seal

3M™ Cool Flow Valve

- Improves user comfort by lowering the breathing resistance and rapidly reducing heat and moisture build up by efficiently removing exhaled breath
- Reduces the fogging of eyewear as the valve directs exhaled air downwards

Filters

- Twin side mounted filters give more balanced feel and better field of vision
- Integral filter seal rings eliminates need for separate gasket
- Large range of cost-effective filters
- Swept back unique 3M bayonet filter attachment system provides a safe and secure fit
- Low profile of mask and filters on the face so easier to fit under welding shields and visors

Plus

- Full range of spares available
- Available in three sizes distinguished by different colours:
 - 3M™ 7501 - Small (grey)
 - 3M™ 7502 - Medium (light blue)
 - 3M™ 7503 - Large (dark blue)



3M™ 7503 Fully Maintainable Premium Silicone Half Mask (Large)
• EN140:1998

Other 3M™ Reusable Half Masks

3M™ 7002 (Medium)
Fully maintainable half mask with rubber face seal and textured nose cup for reduced slippage and skin irritation
Also available in large size - 3M™ 7003



3M™ 6000 Series Classic Comfort Half Masks incorporate a lightweight elastomeric face piece, ideal for less harsh applications where a cost-effective option is required.

Soft elastomeric face piece

- Light weight comfort

Cradle suspension

- For easy to fit comfortable wear

Filters

- Twin side mounted filters give more balanced feel and better field of vision
- Large range of cost-effective filters
- Swept back unique 3M™ Bayonet Filter attachment system provides a safe and secure fit
- Low profile of mask and filters on the face so easier to fit under welding shields and visors

Exhalation Valve

- Improves user comfort by lowering the breathing resistance and rapidly reducing heat and moisture build up by efficiently removing exhaled breath

Easy to fasten neck strap

Plus

- Available in three sizes distinguished by different colours:
 - 3M™ 6100 - Small (light grey)
 - 3M™ 6200 - Medium (grey)
 - 3M™ 6300 - Large (dark grey)



3M™ 6200 Half Mask (Medium)
• EN140:1998

Accessories e.g. face seal cleaners and carry bags, are available for this range.
Please call 3M Health and Safety Helpline for further details.
0870 60 800 60 (UK) 1 800 320 500 (Ireland)

Compatibility

3M™ Maintenance Free Particulate Respirators can be compatible with other 3M products:

Eyewear
(see section 5)



Hearing Protection
(see section 4)



Accessories for the 3M Reusable Respirators

3M™ 105
Face Seal Wipe



3M™ 106
Carry Bag



3M™ Reusable Respirators

3M™ Maintenance Free Reusable Respirators

3M™ 4000 Series Respirators incorporate a unique design with integral filters. They are exempt from the maintenance requirements of the COSHH regulations if disposed of within the month.

Flexible face piece

- Low profile styling for better peripheral vision
- Lightweight well balanced design
- Soft, non-allergenic material with textured face seal

Built in filters

- No maintenance records are required if it is disposed of within one month
- Four versions available, each offering protection against differing hazards throughout industry
- One piece maintenance free construction

Exhalation Valve

- Central position for effective removal of heat and moisture build up within face piece

Adjustable head cradle and neck straps

- Stable secure fit
- Easy to fasten neck strap

Cost effective

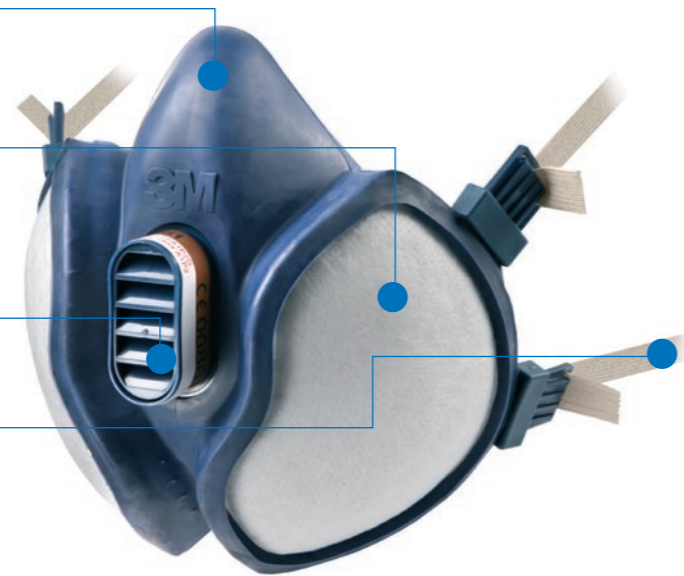
- Replace if damaged, particulate filters clog or gas filters become saturated or after one month (whichever occurs first)

Convenience

- Resealable bag provides convenient and clean storage between uses

Extras

- Spray-mist pre-filter is available to help prolong the life of the main particulate filters (3M™ 400 Overspray Guard)



3M™ 4251 Maintenance Free Reusable Respirator

- FFA1P2D
- EN405:2002
- Organic vapour and particulate respirator

3M™ Full Face Masks

3M™ 6000 Series Full Face Mask is one of the lightest, most well balanced masks available with long wearing comfort and an easy to fit design.

Functional Design

- Soft, hypo-allergenic elastomeric face piece
- Extremely lightweight (410 grams) for high comfort (excludes filters)

Full Face Lens

- Broad field of vision
- Polycarbonate lens, scratch and impact resistant to EN166:B

4 Strap Head Suspension

- Easy to put on and take off

3M™ Cool Flow™ Valve

- Helps reduce heat build-up inside the respirator
- Humid exhaled air escapes efficiently through the valve
- Centre position and innovative design effectively manages the removal of exhaled air

Filters

- Twin filter design gives a more balanced fit by avoiding a heavy single filter at the front
- Swept back filter positioning for unobstructed field of vision
- Large range of cost-effective filters
- Unique 3M Bayonet Filter attachment system for a safe and secure fit



Plus

- Available in three sizes distinguished by different colours:
 - 3M™ 6700 - Small (light grey)
 - 3M™ 6800 - Medium (grey)
 - 3M™ 6900 - Large (dark grey)




3M™ 6800 Full Face Mask (Medium)

- EN136:Class 1


Other 3M™ Maintenance Free Reusable Respirators available			
<p>3M™ 400 Overspray Guard</p> <p>Fits over filter to protect and extend the life of the main filter</p> 	<p>3M™ 4255 Organic Vapour and Particulate Respirator</p> <p>FFA2P3D</p>	<p>3M™ 4277 Organic Vapour/Inorganic + Acid Gas/Particulate Respirator</p> <p>FFA2P3D</p>	<p>3M™ 4279 Organic Vapour/Inorganic + Acid Gas/Ammonia/Particulate Respirator</p> <p>FFABEK1P3D</p> 

Compatibility
3M™ Maintenance Free Particulate Respirators can be compatible with other 3M products:

Eyewear
(see section 5)



Hearing Protection
(see section 4)



Other 3M™ Full Face Masks

3M™ 7907S
Fully Maintainable Full Face Mask (Silicone). Double face sealing for safe, secure fit to most face sizes. 6 strap suspension. Polycarbonate scratch and impact resistant visor. EN136 Class 2



3M™ Powered and Supplied Air Respirators



3M offers you a wide range of powered and supplied air respirators for industrial applications, providing unequalled comfort and protection in the toughest conditions.

- Refreshing airflow
- Ergonomic headtop design
- Integrated head, face and eye protection

Modular 3M™ Powered and Supplied Air Respirators:

Select a Headtop

Select the headtop that suits your application

Select a Breathing Tube

- Choice of rubber or lightweight polyurethane
- Flame retardant protective cover available for welding or grinding applications

Select a Modular Belt Unit

3M™ Jupiter™ and 3M™ Dustmaster Powered Air Turbo Unit or 3M™ Flowstream™ Regulator

For further details on the range of 3M Headtops visit: www.3m.com/uk/ohes

Compatibility
3M™ Powered Air Respirators can be compatible with other 3M products:

Hearing Protection
(see section 3)



3M 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™ S-200 Regulator, compatible with 3M™ half and full face masks.	
3M™ Airstream™ Powered Air Respirators EN146	
3M™ Powerflow Plus™ Powered Air Respirator EN147 (rev) TM3PSL	
3M™ S-200 Supplied Air Respirator EN139	
3M™ Visionair™ Supplied Air Visor EN270	

3M™ Headtops - Modular

The modular range of 3M Powered and Supplied Air Respirators lets you choose how you want your respirator built, with the flexibility to change in the future.

The five series of hoods, visors, helmets and welding visors provide a broad selection of headtop designs that are suitable for use in many different industry applications.

3M™ S-Series Hoods - Lightweight Protection **NEW!**

A range of head and upper-body coverage hoods, the S-Series includes exceptionally light headcovers and hoods providing class 3 respiratory protection with the Jupiter turbo and modular supplied air belt units.



3M™ 600 Series Welding Visors - Welding Applications and Impact Protection

A range of 3 welding visors designed to increase the levels of welder comfort and productivity. These headtops benefit from a new face seal system and flip-up welding shields. Suitable for use with a conventional glass lens or the 3M™ WF-340 Auto-Darkening Filter.



3M™ 800 Series Premium Helmets - Head Protection

A range of headtops that offer high durability, performance and quality. A choice of bump-cap, hard hat and a full-helmet with jaw and shoulder shroud provide integrated head, eye and respiratory protection.



All options are not listed below. Please refer to www.3m.co.uk/ohes or separate Powered and Supplied Air literature for further information.

3M™ 400 Series Visors - Impact Protection

Durable clear-view headtop with a flip-up visor. A choice of polycarbonate or acetate visor for impact protection or chemical resistance.



3M™ 700 Series Helmets - Head Protection

A range of 6 clear-view and welding helmets based on the 3M™ Airstream™ powered air helmet. Designed for aggressive environments requiring integrated head, eye and respiratory protection.



3M™ Speedglas™ Welding Headtop for use with the 3M™ Jupiter™ and 3M™ Dustmaster Turbo units

The Speedglas 9000 welding shield for Jupiter or Dustmaster Respiratory Systems is a face, eye and respiratory protective system, for increased comfort and safety in welding. The shield features shade 5 side windows and can be combined with any Speedglas Auto-Darkening Filter. (Includes Shield and Hose no Welding Filter).

Welding Filter Options	
Filter - Speedglas 9002X Part No. - 400080 Dark State - Variable 9-13	
Filter - Speedglas 9002V Part No. - 400070 Dark State - Variable 9-13	Filter - Speedglas 9002D Part No. - 400040 Dark State - Variable 9 and 11

3M™ Powered and Supplied Air Respirators

3M™ Powered Air Turbo Units - Modular

The modular range of 3M™ Powered and Supplied Air Respirators lets you choose how you want your respirator built, with the flexibility to change in the future.

Each of the modular headtops can be combined with any of the powered air turbo units or supplied air regulators, giving you the versatility to build the right respirator for your workplace.

3M™ Jupiter™ Turbo Unit

The Jupiter turbo unit can be attached to a wide range of different headtops. This flexible approach allows you to select the right headtop to perform your chosen task.

- For use with 21 different headtops
- 3 Breathing tube options: lightweight polyurethane, rubber or class 3 performance
- Visual and audible alarm in case of low battery and/or low air flow
- Choice of 5 filter types with unique half-turn attachment (P, A2P, ABE1P, A2BEK1P, K1P)
- Smooth shape allows easy cleaning
- Filter cover prevents damage or sparks entering the filter body and allows shower decontamination
- Choice of 4 hour, 8 hr or 4 hr I.S. NiMH batteries
- Entire Turbo comprises 3 replaceable modules for very easy maintenance
- Electronic flow control giving known safe level of clean air
- Intelligent charger to optimise battery life
- EN12941
- APF=20 with each 3M™ Headtop (40 with HT-152)
- APF=40 with S-Series and HT-152 headtops



Ensure you remember the following components:

1. Battery
2. Charger
3. Filters

Visit our website for further details
www.3M.com/uk/ohes

or call the 3M Health and Safety Helpline on
0870 60 800 60(UK) 1 800 320 500 (Ireland)

3M™ Dustmaster™ Turbo Unit

The Dustmaster turbo unit provides protection against airborne particulates, and welding fumes. Optional nuisance odour filter available.

- Belt-mounted turbo unit with enclosed motor fan, 8-hour battery and long-life filter
- Charging socket – no need to remove battery for charging
- Excellent value product offering low cost protection and productivity benefits
- prEN146(rev)
- APF=20 with each 3M™ Headtop (10 with 600 series, HT-152 and S-Series)



Ensure you remember the following components:

1. Charger
2. Spare filter

Visit our website for further details
www.3M.com/uk/ohes

or call the 3M Health and Safety Helpline on
0870 60 800 60 (UK) 1 800 320 500 (Ireland)

3M™ Supplied Air Belt Units - Modular

3M™ Supplied Air Belt Units provide a smooth airflow with optional temperature control and optimum comfort. They offer protection against dusts, mists, fumes, gases or vapours plus combination hazards such as paint spray.

3M™ Flowstream™ Regulator

Modular Supplied Air Regulator with air-flow control.

- Air-flow control (150-305 l/min) over a wide input pressure range (2.5 - 8 bar)
- Very low noise (<65dBA) for improved comfort
- Enclosed replaceable charcoal filter removes odours
- Spray-gun or compressed-air tool port
- Low pressure warning whistle
- Smooth shape allows easy cleaning
- EN1835
- APF=20 with each 3M™ Headtop (40 with HT-152 and S Series)



Ensure you remember the following components:

1. Couplings
2. CASTs (compressed air supply tubes)

Visit our website for further details
www.3M.com/uk/ohes

or call the 3M Health and Safety Helpline on
0870 60 800 60(UK) 1 800 320 500 (Ireland)

Standard and Performance Levels

Product	Standard	Performance	APF*
Jupiter™ Turbo Unit	EN12941	TH2 TH3	20 40
Dustmaster™ Turbo Unit	EN12941 prEN146 (rev)	TH1 TH2	10 20
Flowstream™ Regulator	EN1835	LDH2 LDH3	20 40
Vortex™ Cooler	EN1835	LDH2 LDH3	20 40
Vortemp™ Heater	EN1835	LDH2 LDH3	20 40

Other 3M™ Supplied Air Belt Units available Utilise input pressure to cool or heat air flow

3M™ Vortex Cooler
EN1835
APF=20 with each 3M Headtop -
(40 with HT-152 and S Series)

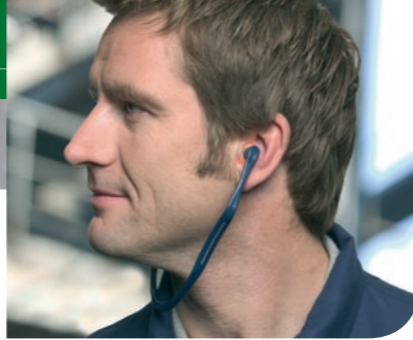


3M™ Vortemp Heater
EN1835
APF=20 with each 3M Headtop -
(40 with HT-152 and S Series)



*APF = Assigned Protection Factor

3M™ Hearing Protection



3M has particular expertise in developing solutions for a wide range of applications and offers a comprehensive range of hearing protective products from disposable earplugs to hi-tech electronic earmuffs. All our hearing products are designed to provide protection, comfort and ease of use.

Excessive Noise and Hearing Loss

Excessive levels of noise can damage the sensory “hair” cells in our ears. These cells help process mechanical energy into the tiny electrical nerve impulses that our brain perceives as sound. Damage to these cells therefore results in a loss in our ability to hear certain sounds.

Hearing loss caused by exposure to noise at work continues to be a significant occupational illness. Recent research estimates that 170,000 people in the UK suffer deafness, tinnitus or other ear conditions as a result of exposure to excessive noise at work*.

Hearing protection can play a vital part in avoiding employee ill-health and the possibility of costly future litigation against the employer.

* www.hse.gov.uk

Changing Regulatory Requirements

Under The Control of Noise at Work Regulations 2005 a new Limit Value of 87dB(A) at the ear must not be exceeded, and hearing protection must be made available where the sound levels are at or above 80dB(A) and strictly enforced where the sound levels reach or exceed 85dB(A).

Whilst a reduction in sound level by 5dB(A) may not at first glance appear significant, it is worth noting that a reduction of just 3dB(A) roughly equates to halving the sound energy level.

3M™ Hearing Protection Range

Our hearing protection products are designed to provide protection, comfort and ease of use. Sometimes, you may have to use hearing, head or face protection, or a combination of them. To meet this need we also have a selected range of high quality safety helmets, visors and face shields.



E-A-Rfit™ Validation System

Real fit = Real results

Stop guessing what protection levels your workers are really getting from their earplugs.

Start knowing each worker's personal protection level and validate that they are getting the protection they need.

Ear canal shapes are different.
Fitting methods are different.
That means protection levels are different.
So who's getting what protection? Is it enough?

- Validate personalised protection levels for each worker
- Quick, easy and affordable testing process
- Compatible with a variety of E-A-R™ Hearing Protector

Test compatible with a variety of E-A-R™ Hearing Protectors. Can be tested by E-A-Rfit™ and Validation System.

Protection levels can be validated with many different E-A-R™ Hearing Protectors. This selection includes specially-probed versions of foam and premoulded earplugs.



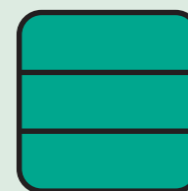
Optime™ Alert System

Our system uses a simple, logically coloured classification to make the selection process easy. Firstly find out what your noise level is, then look at the icons below and establish which noise band (RNR) your noise level falls into. Take note of the icon and choose from the wide range of products featuring the correct icon.

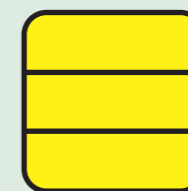
3M has also developed a simple sound level indicator that complements the Optime™ Alert System by establishing which colour code you need to follow.



*RNR = Recommended Noise Rating



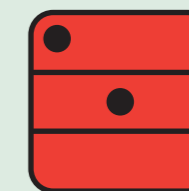
RNR* < 85dB(A)
You do not have to wear hearing protection, but make it available to your workers.



83 dB(A) - 93 dB(A)
You must assume you are above the permitted exposure level, hearing protection is compulsory.



87 dB(A) - 98 dB(A)
You are above the permitted exposure level, hearing protection is compulsory. Ideal for high frequency noise.



94dB - 105dB(A)
You are above the permitted exposure level hearing protection is compulsory. Ideal for high and medium frequency noise.



95 dB(A) - 110 dB(A)
You are above the permitted exposure level, hearing protection is compulsory. Ideal for all frequencies.



Optime™ Alert System by Product

 <p>GREEN OPTIME™ ALERT SYSTEM RNR* < 85dB(A) Hearing protection is not compulsory but is made available to workers for their comfort and protection</p>	<p>E-A-R™ Ultrafit™ 14 Earplugs - SNR 14dB E-A-R™ E-A-Rflex™ 14 Earplugs - SNR 14dB</p>	
 <p>YELLOW OPTIME™ ALERT SYSTEM 83 dB(A) - 93 dB(A) You are above the permitted exposure level, hearing protection is compulsory.</p>	<p>E-A-R™ E-A-Rsoft™ 21 Earplugs - SNR 21dB E-A-R™ Ultrafit™ 20 Earplugs - SNR 20dB E-A-R™ ClearE-A-R™ 20 Earplugs - SNR 20dB E-A-R™ Tracer™ 20 Earplugs - SNR 20dB E-A-R™ Ultratech™ Earplugs - SNR 21dB E-A-R™ E-A-Rflex™ 20 Earplugs - SNR 20dB E-A-R™ E-A-Rband™ Earplugs - SNR 21dB E-A-R™ Caboflex™ Earplugs - SNR 21dB</p>	
 <p>RED 1 OPTIME™ ALERT SYSTEM 87 dB(A) - 98 dB(A) You are above the permitted exposure level, hearing protection is compulsory. Ideal for high frequency noise.</p>	<p>E-A-R™ Classic™ Earplugs - SNR 28dB E-A-R™ Express™ Earplugs - SNR 28dB 3M™ 1261/1271 Earplugs - SNR 25dB E-A-R™ E-A-Rcaps™ Earplugs - SNR 23dB E-A-R™ Flexicap™ Earplugs - SNR 23dB 3M™ Pulsar™ Earplugs - SNR 23dB E-A-R™ Reflex™ Earplugs - SNR 26dB 3M™ 1310 Earplugs - SNR 26dB 3M™ 9000 Earmuffs - SNR 22dB E-A-R™ Model 5000™ Earmuffs - SNR 27dB Peltor™ Optime™ I Earmuff - SNR 26/27/28dB (depending on the version) Peltor™ Bulls'eye™ I Earmuff - SNR 27dB Peltor™ H 31 Earmuff - SNR 27/28 dB (depending on the version)</p>	
 <p>RED 2 OPTIME™ ALERT SYSTEM 95 dB(A) - 110 dB(A) You are above the permitted exposure level, hearing protection is compulsory. Ideal high and medium frequencies.</p>	<p>E-A-R™ Classic™ Corded Earplugs - SNR 29dB E-A-R™ Pro-Seals™ Earplugs - SNR 29dB 3M™ Torque™ Earplugs - SNR 32dB E-A-R™ Tri-Flange™ Earplugs - SNR 29dB E-A-R™ Tracers™ Earplugs - SNR 32dB E-A-R™ Ultrafit™ Earplugs - SNR 32dB Peltor™ Optime™ II Earmuff - SNR 30/31dB (depending on the version) Peltor™ Push to Listen™ Earmuff - SNR 29/31dB (depending on the version) Peltor™ Bulls'eye™ II Earmuff - SNR 31dB</p>	
 <p>RED 3 OPTIME™ ALERT SYSTEM 95 dB(A) - 110 dB(A) You are above the permitted exposure level, hearing protection is compulsory. Ideal for all frequencies.</p>	<p>E-A-R™ Classic™ Soft Earplugs - SNR 36dB E-A-R™ Superfit™ 33 Earplugs - SNR 33dB E-A-R™ Superfit™ 36 Earplugs - SNR 36dB 3M™ 1120/1130 Earplugs - SNR 34dB E-A-R™ E-A-Rsoft™ Neons Earplugs - SNR 36dB E-A-R™ E-A-Rsoft™ Blasts Earplugs - SNR 36dB E-A-R™ E-A-Rsoft™ Metal Detectable Earplugs - SNR 36dB 3M™ Solar Earplugs - SNR 36dB 3M™ 1100/1110 Earplugs - SNR 37dB E-A-R™ E-A-Rsoft™ Fx Earplugs - SNR 39dB 3M™ No-touch™ Earplugs - SNR 35dB E-A-R™ Push-ins™ Earplugs - SNR 38dB E-A-R™ Ultrafit™ X Earplugs - SNR 35dB Peltor™ Optime III Earmuff - SNR 34/35 dB (depending on the version) Peltor™ Bulls'eye™ III Earmuff - SNR 35dB</p>	

PLEASE NOTE:
At levels above 95dB(A) you will need an accurate noise assessment to correctly select the product. Green and Yellow marked products are not suitable for use in low frequency noise.

Roll Down Polyurethane (PU) Earplugs

Our Roll Down Earplugs are made from expandable Polyurethane (PU) foam, which provides great comfort and good protection. The one size fits most ear canals. Once inserted in the ear, the foam plugs expand to provide a snug and secure custom fit.

Features and Benefits:

Comfortable

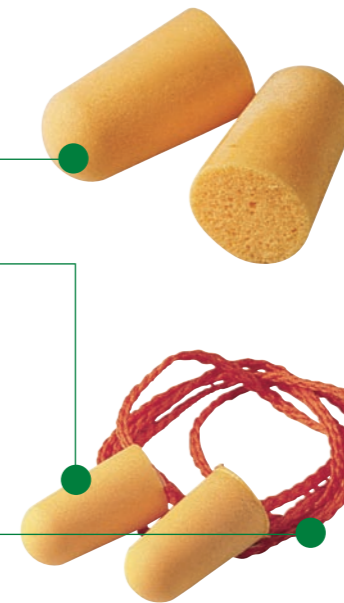
- Soft hypoallergenic foam material for lower pressure inside the ear
- Smooth, dirt resistant surface for better hygiene, durability and comfort

Convenient

- Tapered design fits most ear canals making the plugs easier to use
- One size only
- Dispenser available (1100)
- Polyester cord (1110)

Effective

- High SNR of 37dB



Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	30.0	33.1	36.3	38.4	38.7	39.7	48.3	44.4
Standard Deviation (dB)	3.9	5.0	7.4	6.2	5.6	4.3	4.5	4.4
Assumed Protection (dB)	26.1	28.1	28.9	32.2	33.1	35.4	43.8	40.0

SNR=37dB H=37dB, M=34dB, L=31dB

Compatibility

3M™ Hearing Protection products can be compatible with other 3M products:

Eyewear

(see section 5)



Respiratory Protection Equipment

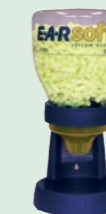
(see section 1, 2 and 3)



3M™ 1100/1120 Dispenser



One-Touch™ Dispenser



3M™ 1100/1110 Disposable Earplugs

Available corded, uncorded and with dispenser

Other 3M™ Disposable Earplugs

3M™ 1120/1130 Disposable Earplugs

Especially designed for smaller ear canals. Available corded, uncorded and with dispenser SNR 34dB



3M™ Solar™ Disposable Earplugs

Colourful earplugs Available corded, uncorded and with dispenser SNR 36dB



E-A-R™ E-A-Rsoft™ Yellow Neons and Blasts Disposable Earplugs

The E-A-R™ standard PU earplugs Available corded (Yellow Neons), uncorded and with dispenser. Compatible with E-A-Rfit™ validation system SNR 36dB



E-A-R™ E-A-Rsoft™ 21 Disposable Earplugs

The low attenuation disposable earplugs Only available uncorded SNR 21dB



E-A-R™ E-A-Rsoft™ FX Disposable Earplugs

The highest attenuation Available corded and uncorded SNR 39dB



E-A-R™ E-A-Rsoft™ Metal Detectable Disposable Earplugs

The traceable disposable earplugs with cord. Compatible with E-A-Rfit™ validation system SNR 36dB





E-A-R™ Classic™ Roll Down PVC Earplugs

E-A-R™ Classic™ Earplugs are made from a soft energy absorbing polymer foam which provides excellent hearing protection and all day comfort. The famous E-A-R™ Classic™ Earplugs are roll down plugs and are available in multiple options to accommodate different wearer needs.

Features and Benefits:

Comfortable

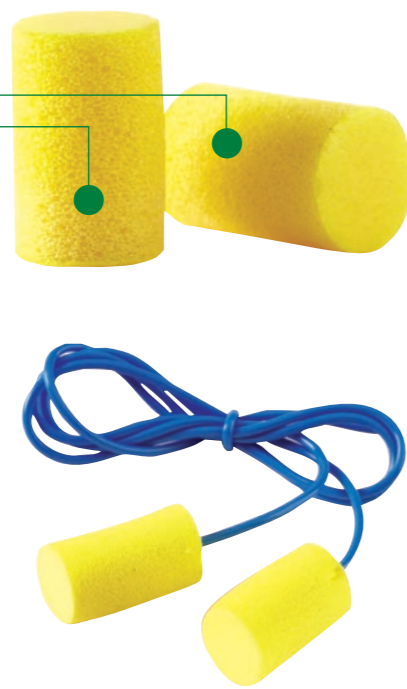
- Soft energy-absorbing foam
- Humidity absorption-resistant, helping to reduce moving and shifting problems when using in moist conditions
- Design to fit and protect without irritation

Effective

- Tested and proven to be flame resistant
- Exposed cell surface texture resists movement and helps maintaining an effective seal

Convenient

- Packed in a handy and resealable pillow pack
- Compatible with E-A-Rfit™ validation system to check Personal Attenuation Ratings



E-A-R™ Classic™ Earplug
Available corded, uncorded and with dispenser
SNR 28dB

Other E-A-R™ Classic Products	
E-A-R™ Classic™ Soft Earplugs Softer Classic earplugs for increased comfort. Available corded, uncorded and with dispenser SNR 36dB	
E-A-R™ Classic™ Small Earplugs Reduced diameter for smaller ear canals Only available uncorded SNR 28dB	
E-A-R™ Superfit™ 33/36 Earplugs With exclusive fitting ring Available uncorded and with dispenser (only Superfit™ 33) SNR 33/36dB	
One-Touch™ Dispenser 	

CLASSIC™	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	22.3	23.3	24.6	26.9	27.4	34.1	41.6	40.4
Standard Deviation (dB)	5.4	5.3	3.6	5.4	4.8	3.1	3.5	6.4
Assumed Protection (dB)	16.9	18.1	20.9	21.5	22.6	30.9	38.1	34.0

SNR=28dB H=30dB, M=24dB, L=22dB

Pod Earplugs

Pod earplugs are very easy to insert since there is no roll down needed, just use the soft flexible grip to push the earplug into position and achieve excellent protection. You do not have to touch the foam during fitting making it one of the most hygienic types of earplug available.

Features and Benefits:

Comfortable

- Unique pod design allowing the foam to compress easily
- The plug slides gently into the ear and expands slowly
- E-A-Rform™ Foam Tip shaped and sized to mold comfortably fitting virtually every size ear canal

Convenient

- Available corded or uncorded
- No roll down required
- Washable and reusable
- The insertion stem eliminates the need to touch the tip: no need to clean your hands



E-A-R™ Express™ Earplug
Available corded, uncorded
SNR 28dB

EXPRESS™	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	27.8	26.0	24.9	25.2	29.4	34.9	37.0	35.9
Standard Deviation (dB)	5.4	4.5	3.3	5.0	4.2	4.1	5.2	3.7
Assumed Protection (dB)	22.4	21.5	21.5	20.2	25.2	30.8	31.8	32.2

SNR=28dB H=30dB, M=24dB, L=22dB

Compatibility
3M™ Hearing Protection products can be compatible with other 3M products:

Eyewear (see section 5)	Respiratory Protection Equipment (see section 1, 2 and 3)

Other Pod Plugs	
E-A-R™ Pro Seals™ Pod Plugs The pod earplugs with flexible stem Available corded and uncorded SNR 29dB	
3M™ Torque™ Pod Plugs The tough pod plugs Available corded and uncorded SNR 32dB	
3M™ No-Touch™ Pod Plugs The colourful pod earplugs Available corded and uncorded SNR 35dB	
E-A-R™ Push-Ins™ Pod Plugs The disposable pod earplugs with high attenuation. Available corded and uncorded. Compatible with E-A-Rfit™ validation system SNR 38dB	

3M™ Hearing Protection



Pre-Moulded Earplugs

Pre-Moulded Earplugs are made from flexible materials that are preformed to fit the ear. They are generally available with a joining cord to prevent loss. These reusable earplugs are comfortable, hygienic and economical. No sizing is required for these pre-moulded, triple flanged earplugs. Available in a variety of style and protection levels.

Features and Benefits:



Comfortable

- Tri-flange design for a perfect fit and comfort
- Easy to fit in the ear for a continuous and comfortable protection

Effective

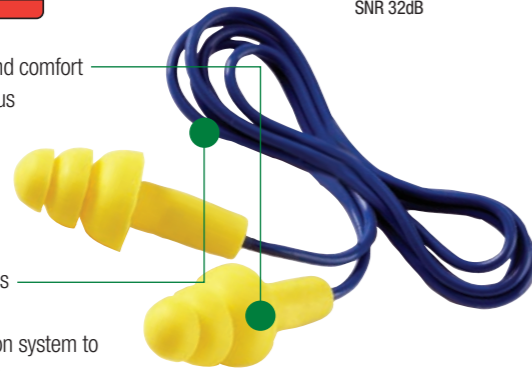
- High attenuation (SNR: 32dB)

Convenient

- Available with a cord to prevent loss
- Washable and reusable
- Compatible with E-A-Rfit™ validation system to check Personal Attenuation Ratings

Versatile

- Different versions for various uses: traceable, high and low attenuation versions



E-A-R™ Ultrafit™ Pre-Moulded Earplugs
SNR 32dB

ULTRAFIT™

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	29.2	29.4	29.4	32.2	32.3	36.1	44.3	44.8
Standard Deviation (dB)	6.0	7.4	6.6	5.3	5.0	3.2	6.0	6.4
Assumed Protection (dB)	23.2	22.0	22.7	26.9	27.3	32.8	38.3	38.4

SNR=32dB H=33dB, M=28dB, L=25dB

Other pre-moulded earplugs

E-A-R™ Ultrafit™ 14/20 Pre-Moulded Earplugs

The low attenuation E-A-R™ Ultrafit™ versions
SNR 14/20dB



E-A-R™ ClearE-A-R™ 20 Pre-Moulded Earplugs

The "nearly" invisible earplugs
SNR 20dB



3M™ 1261/1271 Pre-Moulded Earplugs

The pre-moulded earplug with convenient storage case
Available corded and uncorded
SNR 25dB



E-A-R™ Tracers™ and E-A-R™ Tracers™ 20 Pre-Moulded Earplugs

Metal detectable version
SNR 32dB (20dB for E-A-R™ Tracers™ 20)



3M™ Tri-Flange™ Pre-Moulded Earplugs

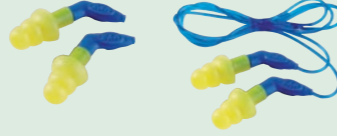
Comfort and design
Available with vinyl or cotton cord
SNR 29dB



vinyl corded cotton corded

E-A-R™ Ultrafit X™ Pre-Moulded Earplugs

The high attenuation pre-moulded earplugs
Available corded and uncorded
SNR 35dB



Banded Earplugs

Banded hearing protectors 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 hearing protectors offer simplicity to help ensure that your workers are receiving the right level of protection. Most models are available with replacement pods making them a more cost-effective option.

Features and Benefits:

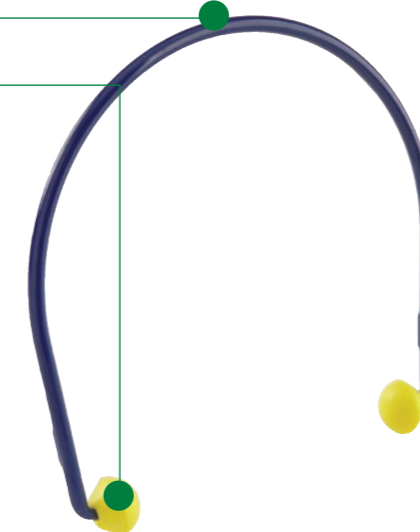


Comfortable

- Extremely light
- Very low pressure into the ear
- Pod plugs gently slides into the ear with no deep insertion

Convenient

- Easy to use
- Ideal for people moving in and out of a noisy environment
- Replacement pods available



E-A-Rcaps™ Banded Earplug
Replacement pods available
SNR 23dB

E-A-RCAPS™

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	21.0	20.2	19.8	19.1	23.2	33.4	41.0	40.7
Standard Deviation (dB)	4.1	4.4	4.2	4.3	3.7	4.5	2.9	5.4
Assumed Protection (dB)	16.9	15.8	15.5	14.8	19.5	29.0	38.1	35.2

SNR=23dB H=27dB, M=19dB, L=17dB

Compatibility

3M™ Hearing Protection products can be compatible with other 3M products:

Eyewear
(see section 5)



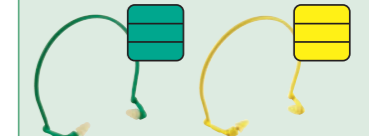
Respiratory Protection Equipment
(see section 1, 2 and 3)



Other banded earplugs

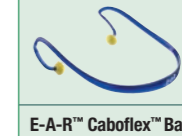
E-A-R™ E-A-Rflex™ 14/20 Banded Earplugs

The low attenuation banded earplugs
SNR 14/20dB



E-A-R™ E-A-Rband™ Banded Earplugs

The ergonomic banded earplugs
Replacement pods available
SNR 21dB



E-A-R™ Caboflex™ Banded Earplugs

The banded earplugs with durable conical shaped insert
Replacement pods available
SNR 21dB



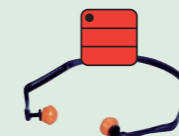
E-A-R™ Flexicap™ Banded Earplugs

The multi-position banded earplugs
Replacement pods available
SNR 23dB



3M™ 1310 Banded Earplugs

The high flexibility band
Replacement pods available
SNR 26dB



E-A-R™ Reflex™ Banded Earplugs

The multi-position banded earplugs with conical tips
Replacement pods available
SNR 26dB



3M™ Pulsar™ Banded Earplugs

Design and ergonomics
SNR 23dB



3M™ Hearing Protection



3M™ Passive Earmuffs

Designed for moderate to high noise attenuation this versatile range offers economical, lightweight yet durable earmuffs with helmet mounted options. All offer superb levels of comfort.

3M™ Electronic Earmuffs

Includes a choice of level dependent earmuffs developed to improve audibility of vital communication and emergency sounds but still protect hearing in noisy environments. Radio earmuffs are available equipped with integral radio and long life battery for increased wear time and reduced isolation. All models are fully adjustable.

Communication products

The Peltor™ range offers first-class communication solutions that not only make your working day safer and more efficient, but also much nicer! Peltor's communication solutions make it possible for users of hearing protectors to communicate very effectively - with their immediate environment and with people farther away.

Peltor™ Optime™ Passive Earmuffs

Features and Benefits:

Comfortable

- Extremely low profile and light to make it easy to team with other equipment
- Generous inside depth to help the ears rest comfortably
- Soft and wide sealing rings filled with a unique combination of foam and liquid to offer optimum sealing and low pressure

Effective

- High attenuation despite lightness and low profile: 27dB SNR
- Unique band design, stainless steel wire for constant pressure over long periods of use

Versatile

- Various versions available to fit any situation: foldable, neckband, high visibility, helmet mounted version



Peltor™ Optime™ I Headband
SNR 27dB

Accessories

Hygiene kits are available for each earmuff version

3M™/Peltor™ Passive Earmuffs

3M™ Model 5000™ Earmuffs
MS-01-005 without Headband Cushion
SNR 27dB



3M™ Model 5000™ Earmuffs
MS-01-006 with Headband Cushion
SNR 27dB

Peltor™ Optime™ I Headband Earmuffs
H510A-401-GU, SNR 27dB



Peltor™ Optime™ I Neckband Earmuffs
H510B-403-GU, SNR 26 dB

Peltor™ Optime™ I Folding Earmuffs
H510F-404-GU, SNR 28dB

Peltor™ H4 Headband
H4A 300, SNR24dB

Peltor™ Optime™ II Headband Earmuffs
H520A-407-GQ
SNR 31dB



Peltor™ Optime™ III Headband Earmuffs
H540A-411-SV
SNR 35dB



Peltor™ Optime™ III Neckband Earmuffs
H540AB-412-SV
SNR 35dB

Peltor™ Optime™ I Helmet attachment Earmuffs
H510P3E-405-GU
SNR 26dB*



Peltor™ Optime™ II Helmet attachment Earmuffs
H520P3E-410-GQ
SNR 30dB*



Peltor™ Optime™ III Helmet attachment Earmuffs
H540P3E-413-SV
SNR 34dB



Peltor™ Electronic Earmuffs

Peltor™ FM-Radio Earmuffs
HRSX7A-01
HRX57P3E-01 (Helmet)
SNR 32dB*



Peltor™ FM-Radio Earmuffs
HRX520A 550-VT-ST
(Helmet)
SNR 29dB*



Peltor™ ProTac™ Level Dependent Earmuffs
MT15H7A2
MT15H7P3E2 (Helmet)
SNR 31dB*



Peltor™ Tactical™ XP Level Dependent Earmuffs
MT1H7F2
MT1H7P3E2 (Helmet)
SNR 30dB*



Peltor™ Lite-Com™ Basic Two Way Communication Earmuffs
MT53H7A4400
SNR 31dB*



Other Peltor™ Optime™ I Earmuffs

Peltor™ Optime™ I Neckband
No headband for an excellent fit with other head worn PPE equipment
SNR 26dB



Peltor™ Optime™ I Folding Headband
Easy-to-store solution
SNR 28dB



Peltor™ Optime™ I Hi-Viz
For workers in need of extra visibility, for example road workers and ground handling staff at airports. Available in all versions.
SNR 26dB



Peltor™ Optime™ I Helmet Attachment
Various versions for different safety helmets
SNR 26dB



Other Peltor™ Optime™ II Earmuffs

Peltor™ Optime™ II Neckband
No headband for an excellent fit with other head worn PPE equipment.
SNR 31dB



Peltor™ Optime™ II Folding Headband
Easy-to-store solution.
SNR 31dB



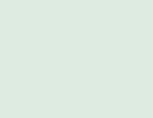
Peltor™ Optime™ II Hi-Viz
For workers in need of extra visibility, for example road workers and ground handling staff at airports. Available in all versions.
SNR 30dB



Peltor™ Optime™ II Helmet Attachment
Various versions for different safety helmets.
SNR 30dB



Peltor™ Optime™ II Dielectric
A version with no visible metal parts.
Available in all versions.
SNR 31dB



Peltor™ Optime™ PTL (Push To Listen)
Optime™ Earmuff with a manual listening function. Just push the button and you reduce attenuation to listen.
SNR 31dB
Also available in Hi-Viz and Helmet mounted version.
SNR 29dB



Compatibility

3M™ Hearing Protection products can be compatible with other 3M products:

Eyewear
(see section 5)



Respiratory Protection Equipment
(see section 1, 2 and 3)



Other Peltor™ Optime™ III Earmuffs

Peltor™ Optime™ III Neckband
No headband for an excellent fit with other head worn PPE equipment.
SNR 35dB



Peltor™ Optime™ III Hi-Viz
For workers in need of extra visibility, for example road workers and ground handling staff at airports. Available in all versions.
SNR 34dB



Peltor™ Optime™ III Helmet Attachment
Various versions for different safety helmets.
SNR 34dB





Peltor™ FM-Radio Hearing Protector

With the Peltor™ FM-Radio you can protect your hearing and listen to the radio in environments where noise can be a problem. The super fast digital tuning, an easy-to-read LCD display and a memory function makes it easy to find and store stations. A 3.5mm stereo input jack also makes it great for use with MP3 players.

Features and Benefits:



Comfortable

- Headband wires of stainless steel
- Contoured cushions provide enhanced slip resistance and a reliable seal
- High Attenuating shells

Convenient

- Easy-to-read LCD display for precise tuning
- Easily accessible control buttons for FM-radio
- Stereo auxiliary input (3.5mm jack) as standard. Cable included

Effective

- SNR of 29dB(A)
- Bass Boost function
- Store up to 5 stations by using the memory function
- Superfast Digital Tuning



Peltor™ FM-Radio Hearing Protector

Features

Colour: Black or White
Batteries: AA (2 X 1,5V)
Operating time: 50h

Accessories

Hygiene kits are available for each muff.

Other Peltor™ FM-Radio Hearing Protectors

Peltor™ FM-Radio Hearing Protector, Black
SNR of 29dB(A)



Peltor™ FM-Radio Hearing Protector, White
SNR of 29dB(A)



Peltor™ Alert FM-Radio Hearing Protector
SNR of 32dB(A)



Peltor™ Lite-Com™ Basic Built-in Two-way Communication Headset

Lite-Com™ is a range of products with a communication radio built into the shell. This system provides effective and effortless short-range two-way communication. 38 subchannels allow several users to communicate individually using the same channel. An electronic voice tells you what settings you are adjusting.

Features and Benefits:



Comfortable

- Headband wires of stainless steel
- Contoured cushions provide enhanced slip resistance and a reliable seal
- High Attenuating shells

Convenient

- Ghost voice guidance
- Easily accessible control buttons
- Noise compensated microphone

Effective

- SNR of 31dB(A)
- Communication on 8 channels in the PMR 446MHz band

Compatible with

- PMR 446 MHz hand held communication radios
- LiteCom™ Basic, LiteCom™ III, LiteCom™ Pro
- Numerous configurations; headband, neckband, helmet attachment



Peltor™ Lite-Com™ Basic Built-in Two-way Communication Headset

Features

Colour: Dark Blue
Batteries: AA (2 X 1,5V)
Operating time: 10-35h (depending on transmission time)

Accessories

Hygiene kits are available for each muff

Compatibility

3M™ Hearing Protection products can be compatible with other 3M products:

Eyewear
(see section 5)



Respiratory Protection Equipment
(see section 1, 2 and 3)



HRX530A 533-ST-ST, HRX530A 533-VT-ST

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	12.0	18.0	29.5	36.0	37.0	44.5	43.5
Standard Deviation (dB)	3.1	2.9	2.2	2.4	2.9	2.7	3.2
Assumed Protection (dB)	8.9	15.1	27.3	33.6	34.1	41.8	40.3

SNR=29dB(A) H=36B(A) M=26dB(A) L=16dB(A)

MT53H7A4400

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	13.8	21.5	30.9	36.6	35.9	35.5	39
Standard Deviation (dB)	1.8	0.9	1.3	1.5	5.5	3.1	2.3
Assumed Protection (dB)	12	20.6	29.6	35.1	30.4	32.4	36.7

SNR=31dB(A) H=32dB(A) M=29dB(A) L=20dB(A)

MT15H7B2 ** **

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14	22.4	28.1	33.8	33.4	35.4	38.7
Standard Deviation (dB)	1.5	2.7	1.7	2.3	2.6	2.3	1.8
Assumed Protection (dB)	12.5	19.7	26.4	31.5	30.8	33.1	36.9

SNR=30dB(A) H=33dB(A) M=28dB(A) L=20dB(A)

Other Peltor™ Electronic Hearing Protectors

Peltor™ Lite-Com™ Basic Hearing Protectors, Headband
SNR of 31dB(A)



Peltor™ Lite-Com™ Basic Hearing Protectors, Helmet Mount
SNR of 30dB(A)



Peltor™ Lite-Com™ Basic Hearing Protectors, Neckband
SNR of 31dB(A)



3M™ Peltor™ Head and Face Head Protection



Peltor™ G2000 with Uvicator™ Sensor Helmet

Attractive design and excellent protection! That's the easiest way to summarise the Peltor™ G2000 with Uvicator™ Sensor Helmet. It is designed to accommodate additional accessories, such as integrated eyewear, visor and hearing protection.

Features and Benefits:

Ventilation

For comfort, good ventilation is a must, particularly in warm environments. The Peltor™ G2000 with Uvicator™ Sensor Helmet allows free airflow between the helmet and its harness.

Space for optional customised print

A flat surface for printing a logo, brand name, etc.

Peltor™ Uvicator™ Sensor

The disc tells you 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

Ratchet Headband

This important feature determines how steadily the helmet sits on the head. Easy to adjust

Optimal profile for earmuffs

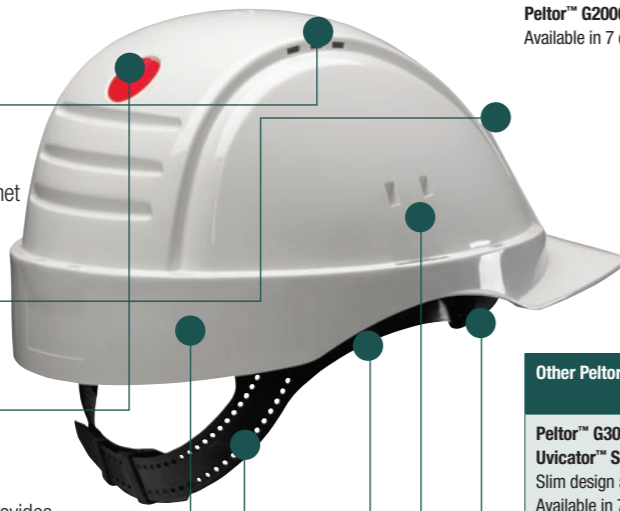
The Peltor™ G2000 with Uvicator™ Sensor Helmet features a special profile design to enable helmet mounted earmuffs to achieve optimal fit and maximum adjustability for individual needs.

Attachment point for accessories

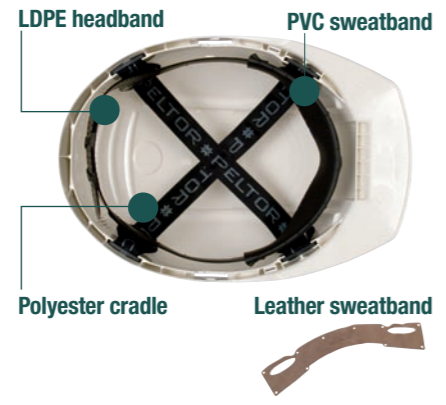
An adjustable snap attachment in the balance point of the helmet to allow simple attachment of accessories, such as muffs, headsets and visors

Sweatband

Easy to replace for highest comfort and hygiene. Also available in soft leather.



Peltor™ G2000 with Uvicator™ Sensor Helmet
Available in 7 colours, with or without ratchet suspension



Other Peltor™ Head Protection Products

<p>Peltor™ G3000 with Uvicator™ Sensor Helmet Slim design and shorter peak Available in 7 colours, with or without ratchet suspension, in high-visibility version (G3000 Hi-Viz).</p>	
<p>Peltor™ Forestry Helmet Combination Ready-to-use combination for forestry workers Includes: G3000 helmet, V4CK mesh visor, H31P3E earmuffs, GR3C rain protection.</p>	
<p>Peltor™ Industrial Helmet Combination Dielectric combination specially designed for work in electrical environments Includes: G2001 Helmet, H31P3K-01 earmuffs, V4H clear visor.</p>	
<p>Integrated Eyewear Designed to be used with Peltor™ Helmets. The patented design allows the glasses to slide easily between the helmet shell and lining. Available in Grey, Yellow, Clear.</p>	
<p>Peltor™ Helmet Accessories A wide range of accessories are available, including sweatbands, chin straps, rain protection, etc.</p>	

3M™ Head and Face Face Protection



Peltor™ V40 Multisystem

The Peltor™ V40 Multisystem is specially designed to be combined with hearing protectors or a built-in communication system. A practical, convenient solution for face and hearing protection where no helmet is needed.

The system can be adapted as needed, boosting safety, enjoyment and comfort. The Peltor™ V40 Multisystem is perfect for the manufacturing industry, agriculture or horticulture. Easy to install on all Peltor hearing protectors with a headband. The visors are CE-approved.

The wide range of visors and hearing protectors allows for many combinations.

Features and Benefits:

Unique forehead shield

Extends well over the forehead and reduces the risk of foreign particles penetrating from above

Shade from the peak

Improves visibility and reduces the likelihood of rainwater or dirt sticking to the visor.

Effective protection

The visor is angled towards the chin and is swept back towards the ears, providing maximum face protection.

High comfort

Peltor™ Hearing Protectors feature soft, comfortable sealing cups and distinct band design which increases wearer acceptability.

Flip-up

A function which makes it easy to flip the visor up or down quickly and simply.

Simple installation

Clips conveniently into place on the hearing protector's headband.



Other 3M™ Face Protection Products

<p>3M™ H-Series Headgear A robust, easy-to-use stand-alone face protection system, available with a range of visors to meet the requirements of most industrial applications. Available with or without ratchet suspension.</p>	
<p>3M™ WP Series Visors To be used with 3M™ H-Series Headgear. Available in clear, mesh and shades 3 and 5.</p>	
<p>V1/V4 Series mesh visors A complete range of mesh visors designed to be used in combination with safety helmets. Available in steel, stainless steel or polyamide.</p>	
<p>V2/V4 Series clear visors A complete range of clear visors to be used in combination with safety helmets. Available in clear polycarbonate, green polycarbonate or acetate, anti-fog and/or anti-scratch.</p>	
<p>Industrial Multisystem Used as a splash guard in industrial activities such as grinding and cleaning. Includes: H510A hearing protector, V40F polycarbonate visor, snap-in replacement visor, slimline and flip-up function.</p>	
<p>Forestry Multisystem Used in clearing and edge trimming with power equipment. Includes: H31A hearing protector, V40C stainless steel mesh visor, snap-in replacement visor, slim line and flip-up function.</p>	

Peltor™ Multisystem options



Compatibility
3M™ Hearing Protection products can be compatible with other 3M products:

Eyewear (see section 5)	Respiratory Protection Equipment (see section 1, 2 and 3)



3M™ Eye Protection solutions offer superior quality eyewear and provide an optimal balance between style, comfort, protection and design including a wide range of prescription safety spectacles.

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 to choose from.

Premium Protection

The premium range of safety spectacles offers the highest optical class. A broad range of eyewear products include durable anti-scratch and convenient anti-fog coatings. All safety spectacles and goggles by 3M offer reliable UV protection and are all approved to EN166:2001 and CE marked.

End User 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 and 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. Compatibility between items of PPE will be subject to a number of variable factors which requires employer and end user to verify before use.

Prescription Eyewear

The Advanced Prescription Programme from 3M is so simple it only requires a few minutes of your time to fulfill your exact Prescription Eyewear needs.



Why choose 3M Prescription Eyewear?

- A vast variety of options ensures almost all styles and requirements can be catered for.
- Plastic, Kevlar, Steel and Titanium frames available.
- Over 20 styles in total.
- Eyewear can be compatible with other 3M Personal Protective Equipment.
- Good complementary range to the 3M non prescription (plano) safety eyewear.

A variety of accessories are available for the 3M™ Eyewear Protection range. Please call the 3M Health and Safety Helpline for details.

0870 60 800 60 (UK), 1 800 320 500 (Ireland)

Classification	Lens Type	Filter code	Protection	Benefits	Typical applications	Markets
Clear Lens	Clear	2C-1.2 or 3-1.2	Impact protection (low energy), UV (A, B and C)	Visibility, good colour recognition	Mechanical work, engineering	Industrial manufacturing (metal, chemical, transportation, automotive), DIY
Clear Lens	Clear CR39 and Mineral Lenses	N/A	Good resistance to scratching and chemicals, UV (A,B,C) protection	Visibility, good colour recognition	Chemical laboratories	Laboratories
Solar Lens	Smoke	5-2.5 or 5-2	Impact protection (low energy), UV (A, B and C), visible light	Colour differentiation under sunlight, and reduced eye fatigue under glare conditions	Outdoor work, mechanical work with glare, vehicle drivers, road works	Industrial manufacturing, construction, roadworks, DIY
Solar Lens	Light Gold Mirror	5-1.7	Impact protection (low energy), UV (A, B and C), glare	Mirror coating keeps lens clear while reflecting light instead of absorbing it. For both sunny and low light conditions.	Fork lift truck, mechanical work indoor/outdoor, maintenance	Construction, logistics/transport
Solar Lens	Indoor/Outdoor Lens (I/O)	5-1.7 (EN172)	Impact protection (low energy), UV (A,B,C), glare	Good visibility in sunny and low light conditions	Fork lift truck driving, mechanical work both indoor and outdoor	Construction, logistics, transport
Solar Lens	Bronze Lens	5-2.5 (Bronze) 5-3.1 (Dark Bronze) (EN 172)	Impact protection (low energy), UV (A,B,C), blue light (480nm)	Good visibility and colour recognition in sunlight and glare conditions.	Outdoor work and mechanical work with glare	Construction and outdoor mechanical work
Solar Lens	Blue Lens	5-3.1 (EN172)	Impact protection (low energy), UV (A,B,C), bright light	Eliminates glare, eye stress and fatigue in monochromatic (single colour) yellow lit environments	Outdoor work, semi conductor fabrication, photolithography, sodium vapour lighting, yellow lighting	Construction and outdoor mechanical work
Solar Lens	Silver, Red, Blue Mirror Lens	5-3.1	Impact protection (low energy), UV (A,B,C), scratches, glare	Good colour recognition in sunlight and glare conditions	Outdoor work, mechanical work with glare, recreational activities	Construction and outdoor mechanical work
Solar Lens	Grey Lens	5-2.5 or 5-3.1	Impact protection (low energy), UV (A,B,C), scratches, glare	Good colour recognition in sunlight and glare conditions	Outdoor work, mechanical work with glare, recreational activities	Construction and outdoor mechanical work
Solar Lens	Polarised	N/A	Impact protection (low energy), UV (A,B,C), glare	Horozonatal glare, good contrast in bright environments	Outdoor work, mechanical work with glare, recreational activities	Construction and outdoor mechanical work, e.g. in wet conditions, marine
High Contrast Lens	Red-Orange	N/A	Impact protection (low energy), UV (A, B and C), blue light from 400nm to 530nm	Filters blue light from 400nm to 530nm thus preventing damage to cornea	Polymerisation, paint and adhesive curing, crack testing	Dental, automotive repair, aerospace
High Contrast Lens	Amber	2-1.2 (EN170)	Impact protection (low energy), UV (A,B,C), blue light (480nm)	Filter blue light and enhances contrast in low light conditions	Surface inspection, Wood's lamp, shooting, mechanical work	Shooting, dental, automotive repair, aerospace
High Contrast Lens	Vermillion	N/A	Impact protection (low energy), UV (A,B,C)	Excellent colour recognition against green backgrounds	Shooting	Shooting, forestry, recreational activities
High Contrast Lens	Yellow	2-1.2	Impact protection (low energy), UV (A, B and C), visible light	Enhanced contrast in low light conditions	Surface inspection, work in poor visibility/dark environment, mechanical work	Industrial manufacturing, oil production and shooting
Welding Lens	IR Shade 5/Green IR shade 1.7 IR shade 3.0 IR shade 5.0 IR shade 7.0	5 (EN169) or 4-5 (EN171) 1.7 3 5 7	Impact protection (low energy), UV (A, B and C), visible light, IR	Prevents welding flash burn (99.5% IR absorption)	Certain gas welding applications, brazing, cutting and welder's assistant. NOT suitable for electric arc welding.	Welding, engineering, construction, automotive, metal scrap yard
Welding Lens	Minimiser Lens	6-1.7	Impact protection (low energy), UV (A,B,C), visible light, IR	Prevents welding flash burns, whilst improving colour recognition (compared to Green shade)	Welder's assistant, glass work feeder	As for IR shade 5



3M™ 2720 Classic Line Safety Spectacles

Cost-effective protection and comfort. 3M™ 2720 Classic Line Safety Spectacles are lightweight and offer the wearer high levels of comfort together with reliable protection.

Features and Benefits:

Style

- Stylish and modern design, eye protection is more likely to be worn if it looks good

Premium Protection

- Optical Class 1 to allow prolonged, comfortable wear
- Good impact resistance with anti-scratch coating for improved durability
- Special anti-fog coating which reduces fogging and ensures clearer vision

Comfort

- Lightweight and comfortable

Compatibility

- Slim nose bridge and flat temples for improved fit with other PPE
- Combines well with 3M™ 9300 Series Respirators



3M™ 2720 Classic Line Safety Spectacles
Lens colour: clear
Lens material: polycarbonate



3M™ Tora™ Classic Line Safety Spectacles

3M™ Tora™ Classic Line Safety Spectacles cool image and perfect fit makes this line of protective eyewear very popular amongst younger members of staff.

Features and Benefits:

Style

- Stylish and modern design, eye protection is more likely to be worn if it looks good

Premium Protection

- 9D base curved lens offer excellent peripheral vision and perfect lateral side protection
- Good impact resistance with anti-scratch coating for improved durability
- Special anti-fog coating which reduces fogging and ensures clearer vision

Comfort

- Lightweight and comfortable

Compatibility

- Slim nose bridge and flat temples for improved fit with other PPE



3M™ Tora™ Classic Line Safety Spectacles
Lens colour: bronze
Lens material: polycarbonate

Other 3M™ 2720 Classic Line Safety spectacles

3M™ 2721 Classic Line Safety Spectacles
Lens colour: smoke for additional sun glare protection
Lens material: polycarbonate



3M™ 2722 Classic Line Safety Spectacles
Lens colour: yellow for contrast enhancement requirements
Lens material: polycarbonate



Other 3M™ Tora™ Classic Line Safety spectacles

3M™ Tora™ Classic Line Safety Spectacles
Lens colour: clear
Lens material: polycarbonate



3M™ Tora™ Classic Line Safety Spectacles
Lens colour: yellow
Lens material: polycarbonate



Compatibility
3M™ Eye Protection products can be compatible with other 3M products:

Respiratory Equipment
(see sections 1, 2 and 3)

Hearing Protection
(see section 4)



3M™ 2840 Comfort Line Safety Spectacles

Protection, comfort and adjustability. With a new, unique style, the 3M™ 2840 Comfort Line Safety Spectacles have been designed with user comfort and convenience in mind. The temples are fully inclinable and adjustable in length for optimal fit. The soft inner padding offers increased comfort.

The 3M™ 2840 Comfort Line Safety Spectacles also feature an integrated browguard for increased protection incorporating a strong polycarbonate lens with anti-scratch and anti-fog coating (except 3M™ 2844), they are available in 6 lens options.

Features and Benefits:

Style

- Stylish and modern design, eye protection is more likely to be worn if it looks good

Premium Protection

- Optical Class 1 for high optical clarity to allow prolonged, comfortable wear
- Integrated browguard for increased protection
- Strong polycarbonate lens with anti-scratch and anti-fog coating
- Polycarbonate lens for good impact protection

Comfort

- Adjustable temple length (3 positions) for comfort and optimal fit
- Soft inner padding on temple for increased comfort and stability when worn
- Inclinable lens enabling individual adjustment and optimal personal fit
- Lightweight (26g)
- Ideal combination with 9300 Series and 4000 Series Respirators and the 7500 Series Half Masks



3M™ 2840 Comfort Line Safety Spectacles
Lens colour: clear
Lens material: polycarbonate



Other 3M™ 2840 Comfort Line Safety Spectacles

3M™ 2842 Comfort Line Safety Spectacles
Lens colour: smoke
Lens material: polycarbonate



3M™ 2841 Comfort Line Safety Spectacles
Lens colour: yellow
Lens material: polycarbonate



3M™ 2844 Comfort Line Safety Spectacles
Lens colour: light gold mirror
Lens material: polycarbonate



3M™ 2845 Comfort Line Safety Spectacles
Lens colour: IR shade 5
Lens material: polycarbonate



3M™ 2846 Comfort Line Safety Spectacles
Lens colour: red-orange
Lens material: polycarbonate



3M™ Solus™ Comfort Line Safety Spectacles

Protection, comfort and adjustability. 3M™ Solus™ Comfort Line Safety Spectacles combine a modern design and an optimal dual technology, with the soft inner padding of the temple, leading to increased comfort and protection, without optical distortion.

Features and Benefits:

Style

- Stylish and modern design, eye protection is more likely to be worn if it looks good
- With colour-accented temples, to the high profile dual lens look of fashion street wear, Solus brings sophistication and comfort to safety eyewear.

Premium Protection

- The lens curve has been calculated to optimise the field of vision and coverage of the eyes
- Blue lens with a light flash mirror coating to remove eye stress and fatigue often occurring in monochromatic (single colour) yellow lit environments
- Perfect in work environments where there is strong glare from bright lighting.
- Strong PC lenses with anti-scratch and anti-fog coating

Comfort

- Lightweight (23g)
- Soft inner padding on temple for increased comfort and stability when worn

Compatibility

- Stylish, low profile design for improved fit with other PPE



3M™ Solus™ Comfort Line Safety Spectacles
Lens colour: blue mirror
Lens material: polycarbonate

Other 3M™ Solus™ Comfort Line Safety Spectacles

3M™ Solus™ Comfort Line Safety Spectacles
Lens colour: red mirror
Lens material: polycarbonate



3M™ Solus™ Comfort Line Safety Spectacles
Lens colour: I/O (indoor/outdoor)
Lens material: polycarbonate



3M™ Solus™ Comfort Line Safety Spectacles
Lens colour: clear
Lens material: polycarbonate



Compatibility

3M™ Eye Protection products can be compatible with other 3M products:

Respiratory Equipment
(see sections 1, 2 and 3)

Hearing Protection
(see section 4)





3M™ Maxim™ Comfort Line Safety Spectacles

Protection, comfort, and adjustability, 3M™ Maxim™ Comfort Line Safety Spectacles, all have a unique patented aspherical lens for 180° of pure vision and eye coverage. The temples are fully inclinable and adjustable in length for optimal fit. They are available in more than 15 different lens and frame options.

The unique minimizer option for welding assistance protects against infra-red without blocking visible light.

Features and Benefits:

Style

- Stylish and modern design

Premium Protection

- Patented aspherical lens for 180° of Pure Vision and superior eye coverage
- Ventilation channel across the lens to minimise misting
- Anti static DX Coating to resist fogging, scratching and chemicals

Comfort

- Soft, universal-fit nosebridge
- Dual-injected cushion browguard for extra comfort and shock absorption
- Adjustable length temples with pantoscopic system

3M™ Maxim™ Comfort Line Safety Spectacles
Lens colour: clear
Lens material: polycarbonate



Other 3M™ Maxim™ Comfort Line Safety Spectacles

3M™ Maxim™ Comfort Line Welding Safety Spectacles
Lens colour: shade 5.0
Lens material: polycarbonate



3M™ Maxim™ Comfort Line Ballistic Safety Spectacles
Lens colour: clear
Lens material: polycarbonate



3M™ Maxim™ Utility Pack
Lens colour: clear
Lens material: polycarbonate



3M™ Maxim™ Comfort Line Ballistic Safety Spectacles Lens colour: bronze Lens material: polycarbonate	
3M™ Maxim™ Comfort Line Safety Spectacles Lens colour: amber Lens material: polycarbonate	
3M™ Maxim™ Comfort Line Sport Safety Spectacles Lens colour: clear Lens material: polycarbonate	
3M™ Maxim™ Comfort Line Sport Safety Spectacles Lens colour: bronze Lens material: polycarbonate	

3M™ Fuel™ Premim Line Safety Spectacles



3M™ Fuel™ Premim Line Safety Spectacles are designed to be worn at work, at home, or during outdoor recreational activities.

Features and Benefits:

Style

- Stylish and modern design, eye protection is more likely to be worn if it looks good

Premium Protection

- Made from a high density nylon material for impact, torsion and extreme heat resistance.
- Ventilation system on nose bridge and temples to prevent fogging
- Polarised version available for optimum comfort against horizontal glare.
- Special mirror coating provides scratch resistance and extreme UV protection.

Comfort

- The frame's moulded lens supports prevent the lenses from being dislodged by a strong frontal impact

3M™ Fuel™ Premim Line Safety Spectacles
Lens colour: blue mirror
Lens material: polycarbonate



Other 3M™ Fuel™ Safety Spectacles

3M™ Fuel™ Premim Line Safety Spectacles Lens colour: red mirror Lens material: polycarbonate	
3M™ Fuel™ Premim Line Safety Spectacles Lens colour: I/O (indoor/outdoor) Lens material: polycarbonate	
3M™ Fuel™ Premim Line Safety Spectacles Lens colour: bronze Lens material: polycarbonate	
3M™ Fuel™ Premim Line Polarised Safety Spectacles Lens colour: black/grey Lens material: polycarbonate	

Compatibility

3M™ Eye Protection products can be compatible with other 3M products:

Respiratory Equipment
(see sections 1, 2 and 3)

Hearing Protection
(see section 4)



Other 3M™ Marcus Grönholm™ Premim Line Safety Spectacles

3M™ Marcus Grönholm™ Premim Line Safety Spectacles
Lens colour: bronze
Material: polycarbonate



3M™ Marcus Grönholm™ Premim Line Safety Spectacles
Lens colour: clear
Material: polycarbonate



3M™ Marcus Grönholm™ Premim Line Large Size Safety Spectacles
Lens colour: clear
Material: polycarbonate



3M™ Marcus Grönholm™ Premim Line Safety Spectacles
Lens colour: blue mirror





3M™ Metaliks™ Premim Line Safety Spectacles

Style and performance. Offering a polished metal frame with sleek 10 base de-centred twin lens for optimum eye coverage and field of vision. Also available are the 3M™ Metaliks™ Sport providing Hypoallergenic frames and a saddle-up nose piece with four lens options.

Features and Benefits:

Style

- Sleek metal frame is both fashionable and resilient

Premium Protection

- Optical Class 1 for high optical clarity to allow prolonged, comfortable wear
- Strong polycarbonate lens with anti-scratch and anti-fog coating
- Polycarbonate lens for good impact protection
- Clear lens offers UV protection whilst the grey provides solar protection

Comfort

- Soft adjustable nose pads enabling comfortable all day fit
- Rubberised tips for increased grip and comfort



3M™ Metaliks™ Premim Line Safety Spectacles
Lens colour: Clear
Material: Polycarbonate

Similar 3M™ Products

<p>3M™ LED Light Vision™ Premim Line Safety Spectacles Lens colour: clear Lens material: polycarbonate</p> 
<p>3M™ Headlights Separate headlights compatible with all 3M™ spectacles</p> 

<p>Other 3M™ Metaliks™ Premim Line Sport Safety Spectacles</p> <p>3M™ Metaliks™ Premim Line Sport Safety Spectacles Lens Colour: amber Lens Material: polycarbonate</p> 
<p>3M™ Metaliks™ Premim Line Sport Safety Spectacles Lens Colour: blue mirror Lens Material: polycarbonate</p> 
<p>3M™ Metaliks™ Premim Line Sport Safety Spectacles Lens Colour: clear Lens Material: polycarbonate</p> 

3M™ 2890 Comfort Line Safety Goggles

The 3M™ 2890 Comfort Line Safety Goggles feature a modern, slim design and are available with four different options using either an acetate or polycarbonate lens with either sealed or indirect ventilation. They are suitable for a number of different applications where a versatile, comfortable goggle is required.

Features and Benefits:

Style

- Modern, slim-line and lightweight design for an excellent fit.

Premium Protection

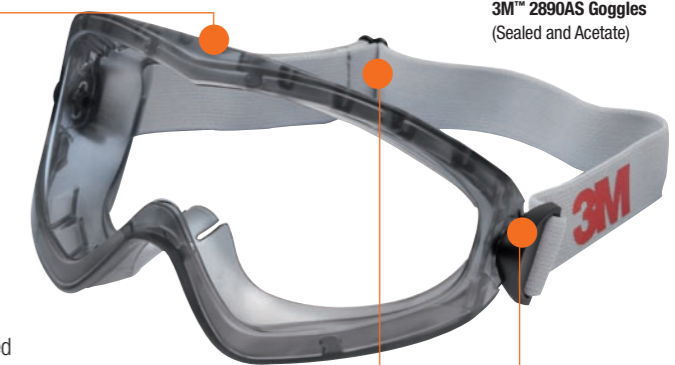
- Optical clarity Class 1 to allow prolonged, comfortable wear
- Sealed design (3M™ 2890S and 3M™ 2890SA helps provide protection against liquids, dust, gases and vapours
- Indirect ventilation design (3M™ 2890 and 3M™ 2890A) for improved air circulation, comfort and reduced fogging in hot/humid conditions
- Acetate lens option (2890A and 2890SA) for excellent chemical resistance and protection against high speed particles at low energy EN166 1 FT
- Polycarbonate lens option (2890 and 2890S) protects against high speed particles at medium energy EN166 1 BT and molten metal
- Anti-Scratch features an extremely scratch resistant coating ensuring improved durability (2890 and 2890S only)
- Special anti-fog coating reduces fogging and ensures clearer vision
- UV Protection gives reliable protection against specified levels of hazardous UV radiation

Comfort

- Easy-to-adjust strap for stable and comfortable wear
- Pivoting ratchet for convenient personal adjustment




Compatibility

- Ideal combination with 9300 Series and 4000 Series Respirators and the 7500 Series Half Masks





3M™ 2890 Goggles (Polycarbonate)
3M™ 2890A Goggles (Acetate)
3M™ 2890S Goggles (Sealed and Polycarbonate)
3M™ 2890AS Goggles (Sealed and Acetate)

Other 3M™ Goggles

<p>3M™ Modul-R Goggle Lens colour: clear Lens material: polycarbonate</p> 
<p>3M™ Fahrenheit™ Goggle Lens colour: clear Lens material: polycarbonate</p> 
<p>3M™ Flyer™ Goggle Lens colour: clear Lens material: polycarbonate</p> 


Compatibility
3M™ Eye Protection products can be compatible with other 3M products:

Respiratory Equipment (see sections 1, 2 and 3) 


Hearing Protection (see section 4) 

Replacement Lens options

3M™ 289 Replacement Lens
Lens material: clear
Lens material: polycarbonate



3M™ 289A Replacement Lens
Lens colour: clear
Lens material: acetate





3M™ Eyewear	Product Code	Lens Type	Impact Protection	Coating	Filter	VLT
Safety Spectacles						
2720	2720	PC Clear	FT	AS-AF	UV	93%
2721	2721	PC Grey	FT	AS-AF	Solar	18%
2722	2722	PC Yellow	FT	AS-AF	UV - Blue Light	93%
Tora™	71501-00001CP	PC Clear	FT	AS-AF	UV	92%
Tora™	71501-00002CP	PC Bronze	FT	AS-AF	Solar- Blue Light	20%
Tora™	71501-00003CP	PC Amber	FT	AS-AF	UV - Blue Light	87%
2840	2840	PC Clear	FT	AS-AF	UV	93%
2841	2841	PC Grey	FT	AS-AF	Solar	19%
2842	2842	PC Amber	FT	AS-AF	UV Blue Light	93%
2844	2844	PC I/O Mirror	FT	Mirror	Solar Glare	53%
2845	2845	PC Shade 5.0	FT	AS-AF	Welding UV- IR	2%
2846	2846	PC Orange	FT	AS-AF	UV Blue Light	45%
Solus™	71505-00001CP	PC Clear	FT	AS	UV	92
Solus™	71505-00009CP	PC Blue Mirror	FT	Mirror	Solar Glare Yellow	16%
Solus™	71505-00005CP	PC I/O Mirror	FT	Mirror	Solar Glare	55%
Solus™	71505-00006CP	PC Red Mirror	FT	Mirror	Solar Glare	55%
Maxim™	13225-00000P	PC Clear	FT	DX	UV	92%
Maxim™	13324-00000P	PC Shade 5	FT	DX	Welding UV-IR	2%
Maxim™	13296-00000	PC Clear	FT	DX	UV	92%
Marcus Grönholm™ Large Size	71462-00004CP	PC Clear	FT	AS-AF	UV	92%
Fuel™	71502-00002CP	PC Blue Mirror	FT	Mirror	Solar Glare	13%
Fuel™	71502-00003CP	PC Red Mirror	FT	Mirror	Solar Glare	17%
Fuel™	71502-00001CP	PC I/O	FT	Mirror	Solar Glare	45%
Fuel™	71502-00004CP	PC Bronze	FT	AS-AF	Solar Blue Light	16%
Fuel™	71502-00005CP	PC Polarized	FT	AS-AF	Solar Glare	17%
LED Light Vision™	11356-00000P	PC Clear	FT	AS-AF	UV	92%
Safety Goggles						
2890 Comfort Goggle	2890	PC Clear	BT	AS-AF	UV	86%
2890A Comfort Goggle	2890A	Acetate	FT	AF	UV	89%
2890S Comfort Goggle	2890S	PC Clear	BT	AS-AF	UV	86%
2890SA Comfort Goggle	2890SA	Acetate	FT	AF	UV	89%

3M™ Sorbents can be used in a wide variety of applications ranging from simple maintenance to emergency spill clean-up. Sorbents help ensure your workplace is kept clean and safe and reduce damage to the environment. 3M™ Sorbents are designed to be used for specific jobs and materials. Some can be used for general maintenance applications while others are designed to handle petroleum or chemical spills and clean-up.

3M offers a range of Sorbents to meet your requirements:

3M™ Maintenance Sorbents

Ideal for absorbing oil and other industrial fluids cleanly, safely and efficiently

3M™ Oil Sorbents

For absorbing oil not water. Being hydrophobic (repels water) they are ideal for absorbing oil from areas where water may also be present

3M™ Chemical Sorbents

Are the 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

Formats

3M™ Sorbents are available in a variety of formats, so you can choose the format that meets your needs.

Multi-Format

All your sorbent needs from one box. This versatile product is four formats rolled into one.

Rugs

Ideal for use in walkways near leaky machines, the rugs are highly durable and tear resistant, withstanding heavy foot-traffic and soaking up liquids without breaking up.

Minibooms and Pillows

Ideal for placing around the base of leaking machinery/equipment to contain and absorb oils and cutting fluids.

Pads and Rolls

Designed to be used in and around the work area to catch leaks and drips, pads are highly absorbent and simple to use.

Hazardous Spill Response Kits

3M™ Chemical Spill Kits each contain a carefully selected variety of chemical sorbents. These convenient kits assist with providing fast and effective containment and clean-up of hazardous spills.

Tanker Spill Response Kits

The modern and effective way to control and clean up spills resulting from liquid fuel deliveries.



3M™ Maintenance Sorbents

3M™ Maintenance Sorbents are ideal for absorbing oil and other industrial fluids cleanly, safely and efficiently.

The benefits of 3M™ maintenance Sorbents:

- 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

3M™ M-F2001 Multi Format Sorbent

Convenient

- All your sorbent needs in one box. Incorporating 3M's high performance sorbent technology, this versatile product is 4 formats rolled into one
- Used closed, the multi-format acts as a boom; unfold once and it's a pillow or open it right out to use as a pad or sheet
- Supplied in a convenient dispenser pack, the sorbent is perforated at 40cm intervals – simply tear off the amount required

Effective

- 3M™ Maintenance Sorbent is highly absorbent (up to 25 times its own weight), absorbing most fluids very quickly
- Rapid deployment

Dimensions 12cm x 15.2m

Case absorbency 119L



3M™ Oil Sorbents

3M™ Oil Sorbents are an innovative range of highly absorbent products. Being hydrophobic (repels water) they are ideal for absorbing oil from places where water may also be present.

3M™ Tanker Spill Response Kits

The modern and effective way to control and clean up spills, particularly those resulting from liquid fuel deliveries.

The Road Traffic (Carriage of Dangerous Substances in Road Tankers and Tank Containers) Regulations 1992, require that during the delivery unloading of petrol, a suitable quantity of absorbent material must be available as a contingency against spills.

3M™ Tanker Kits can satisfy the above legislation ensuring a rapid and effective solution to spills of this nature.

- Easily stowed in confined areas, e.g. behind the driver's seat
- Immediately deployable
- 2 convenient sizes (TSK15, absorbency 15 litres and TSK30, absorbency 30 litres)
- Mini-booms for containment
- Easy to dispose of – disposal bags and ties included



Other 3M™ Maintenance Sorbents			
Rugs M-G1001 (Uncoated) Dimensions 91cm x 91m Case absorbency 120L	Minibooms M-M1001 Dimensions 1.2m x 7.5 Øcm Case absorbency 45L	Pillow M-N1001 Dimensions 18 cm x 38cm Case absorbency 32L	Pads M-A2002 Dimensions 40 x 52cm Case absorbency 142L
M-G1301 (Coated) Dimensions 91cm x 30m Case absorbency 40L	M-M1002 Dimensions 2.4m x 7.5 Øcm Case absorbency 45L		Rolls M-B2001 Dimensions 46m x 40cm Case absorbency 117L
	M-M1003 Dimensions 3.6m x 7.5 Øcm Case absorbency 45L		M-B2002 Dimensions 46m x 96cm Case absorbency 288L

Other 3M™ Oil Sorbents				
Multi-Format T-F2001 Dimensions 12cm x 15.2m Case absorbency 119L	HP156 Dimensions 48 x 43cm Case absorbency 142L	Pillows T30 Dimensions 18 x 38cm Case absorbency 32L	T280 Dimensions 2 x 10cm Ø x 3m Case absorbency 152L	T8 Dimensions 7.5cm Ø x 2.4m Case absorbency 45L
Sheets T151 Dimensions 53 x 39cm Case absorbency 150L	Rolls T100 Dimensions 96cm x 40m Case absorbency 276L	T240 Dimensions 38 x 55cm Case absorbency 100L	T270GA Dimensions 20cm x 5m Case absorbency 220L	T12 Dimensions 7.5cm Ø x 3.6m Case absorbency 45L
T156 Dimensions 53 x 39cm Case absorbency 135L	T150 Dimensions 48cm x 40m Case absorbency 138L	Booms T270 Dimensions 20cm Ø x 3m Case absorbency 260L	Minibooms T4 Dimensions 7.5cm Ø x 1.2m Case absorbency 45L	Sweep T126 Dimensions 48cm x 30m Case absorbency 95L
	HP100 Dimensions 96cm x 44m Case absorbency 276L			



3M™ Chemical Sorbents

3M™ Chemical Sorbents are an ideal solution for hazardous spill control. They provide very high absorption capacities and are suitable for absorbing a very wide range of liquids.

3M™ Hazardous Spill Response Kit

- Contains a carefully selected variety of 3M Chemical sorbents
- Available in 5 configurations, these kits provide absorbency of either 5, 26, 75, 210 or 360L
- The convenient kit assists with providing fast and effective containment and clean up of hazardous spills
- The kit shown is the HSRK75 which contains:
 - 100 sheets
 - 12 pillows
 - 8 minibooms
 - 5 disposable bags and ties



3M™ Disposable Spill Kit

A new and innovative way of dealing with everyday spills quickly and easily. Everything you need in one kit!

- Unique design allows safer clean up - less risk of injury
- Specially designed brush means no need to handle glass and the dustpan kit seals reducing exposure to broken glass
- Absorbs up to 1.5L



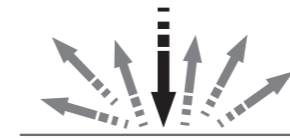
Other 3M™ Chemical Sorbents				
Multi-Format P-F2001 Dimensions 12cm x 15.2m Case absorbency 119L	Roll P130 Dimensions 33cm x 30m Absorbency 50L	Miniboom P200 Dimensions 120cm x 7.5 0cm Absorbency 42L	Hazardous Spill Response Kits HSRK 360 Absorbency 360L HSRK 210 Absorbency 210L	HSRK 5 Absorbency 5L
Sheet P110 Dimensions 28cm x 33cm Absorbency 44L	P190 Dimensions 48cm x 30m Absorbency 72L	Pillow P300 Dimensions 18cm x 38cm Absorbency 32L	HSRK 26 Absorbency 26L	

3M manufactures a wide range of retro reflective materials that incorporate both glass bead and micro prismatic technologies. Whatever your requirements - we'll be able to help.

Reflection Explained

Almost all surfaces are reflective. This is the ability of a material to bounce light off its surface so that it can be seen. There are different types of reflectivity: diffuse, mirror and retro reflection.

Diffuse reflection occurs when light strikes a rough surface, such as pavement, foliage, clothing, and vehicles. These surfaces cause the light to scatter in all directions.



Mirror reflection occurs when light strikes surfaces that are smooth or glossy. The light reflects off the surfaces at an equal, but opposite angle to the source. Light bounced by mirror reflection may or may not be seen by our eyes.



Retro reflection occurs when light rays are returned in the direction from which they came. When a driver is sitting in a vehicle with its head lights on he/she can see the light being reflected from the retro reflective material on the garment of a person who is standing at a distance in the beam of light.

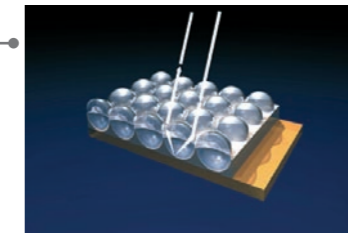


Retro-Reflective Technologies

We use two different technologies in our retro reflective range of materials.

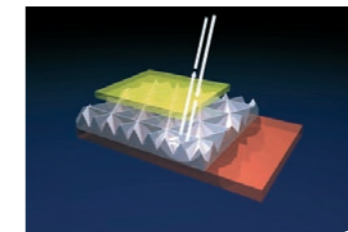
Glass Bead/Lens technology

Scotchlite™ Reflective Materials incorporating glass bead technology utilise thousands of high performance glass beads that reflect light very effectively in all directions due to their spherical nature.



3M™ Scotchlite™ Reflective Material incorporating glass bead technology:

- Is very comfortable to wear. The reflective material forms an integral part of a garment, providing freedom of movement, easy storage and folding.
- Includes a range of material that is able to withstand high temperature washing up to 92°C.
- Can be dry cleaned and ironed.
- Is cost effective.
- Is available in sew-on, heat-applied and self adhesive options.



Microprismatic Technology

Scotchlite™ Reflective Material High Gloss Series incorporates retro reflective microscopic prisms formed on a polymeric film to create a bright reflective appearance on garments and accessories.

3M™ Scotchlite™ Microprismatic Reflective Material:

- Is available in different colours.
- Can be washed at 60°C up to 75 times.
- Provides an attractive, high gloss finish.
- Can be sewn or welded onto garments.

EN471: A1: 2007 The European Standard for High Visibility Workwear

With safety its primary objective, EN471 sets out exacting specifications for the performance of high visibility garments. The performance of the conspicuous materials to be used in "high visibility clothing" is specified together with minimum areas and placement of the materials.

Two levels of retro reflective materials are tabled within the standard with Level 2 providing the highest level of brightness. Most Scotchlite reflective materials for high visibility Workwear meet and exceed the highest brightness category of EN471.



3M™ Scotchlite™ Reflective Materials

Features

Most 3M™ Scotchlite™ Reflective Materials intended for occupational garments conform to EN471 Level 2. In addition, they boast a range of features and benefits that meet various different requirements, depending on your work environment. In situations exposing your workforce to all manner of hazardous, unpleasant and dirty materials, you may require your reflective clothing to be thermally decontaminated or to withstand a wide range of temperatures, chemicals, smoke damage, oil or grime. 3M can help you find a 3M™ Scotchlite™ Reflective Material that entirely suits your needs. What additional requirements do you have?

Industrial Laundering

3M™ Scotchlite™ Reflective Materials: Industrial Wash Products can be repeatedly laundered either commercially or in a domestic 92°C wash without compromising their performance. These materials are proven to withstand temperatures sufficient to kill viruses responsible for HIV and Hepatitis B.

Flame Retardancy

In addition to the requirement of high visibility and instant identification, some garments are exposed to the risk of heat and flame - whether naked flames or hot machinery, and need to be flame retardant. A flame retardant range of 3M™ Scotchlite™ Reflective Materials is available performing to EN469, the European Standard for Protective Clothing for fire fighters.

Comfort

3M™ Scotchlite™ Reflective Materials incorporating glass bead technology are particularly comfortable forming an almost integral part of the garment.

Choice of Application

3M™ Scotchlite™ Reflective Materials incorporating glass bead technology are available in sew on, heat-applied and self-adhesive options. The High Gloss range can be sewn or welded onto background fabric.

Product Focus

3M™ Scotchlite™ Reflective Material - 9687 Fluorescent lime-yellow Fire Coat Trim

3M™ Scotchlite™ Reflective Material - 9687 Fluorescent lime-yellow Fire Coat Trim is intended to enhance the visibility of the wearer, when applied to fire fighting apparel and flame resistant occupational work wear.

It is most appropriate where enhanced visibility of the wearer during daytime, and in low-light night time conditions, in combination with heat resistance and wear durability is required.



3M™ Scotchlite™ Reflective Material - 9920 Silver Industrial Wash Fabric

3M™ Scotchlite™ Reflective Material - 9920 Silver Industrial Wash Fabric has been specially designed to withstand repeated industrial launderings per care instruction and will exceed minimum retro reflective performance requirements of EN 471 even after extended numbers of laundering cycles. It can be domestically washed at 92°C without compromising performance, and is suitable for tunnel finishing.



3M™ Protective Coveralls

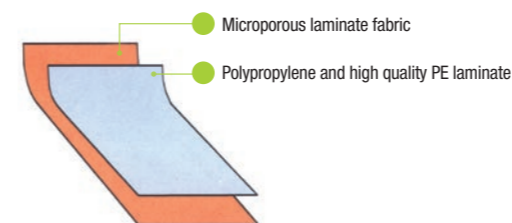


3M has a select range of high quality stylish Protective Coveralls offering breathable comfort and protection you can rely on. With the highest level of construction quality, the range provides peace of mind for effective use and protection against many industrial hazards.

Fabric Material

Laminated microporous-

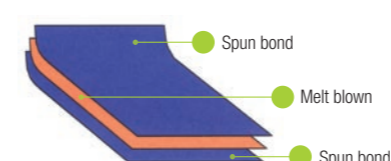
Material used in the 3M™ 4540, 3M™ 4560 and 3M™ 450:



The association of one layer of polypropylene and one layer of high-quality PE laminate gives excellent performance and barrier efficiency against most families of chemicals and particles. This fabric is particularly robust and low linting.

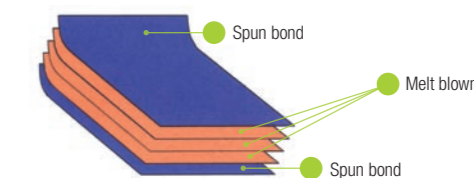
SMS (Spun bond, Melt blown, Spun bond polypropylene)-

Material used in the 3M™ 4530 and the backpanel of the 3M™ 4540:



The combination of three layers of polypropylene brings increased protection and breathability. The melt blown is inserted with hot air and acts as a chemical barrier. The other two layers make the coverall soft and breathable.

SMMMS (Spun bond, Melt blown, Melt blown, Melt blown, Spun bond polypropylene)- Material used in the 3M™ 4520



With 3 layers of melt blown polypropylene in between 2 layers of spun bond polypropylene, the 4520 material is specially designed to maximise breathability and air flow, yet provide good protection against dust and liquid splashes.

Standards:

3M™ Coveralls meet the performance requirements of the respective European standards.

3M™ Coveralls	Symbol	Standard
4530, 4540, 4560		Chemical Protection Category III EN 340: Protective clothing EN 368: Chemical penetration
4530, 4540, 4560, 4520		prEN 13034: 1997(4530/4540), EN 13034: 2005(4560): Limited protective performance Type 6: Against liquid chemicals (splashproof)
4530, 4540, 4560, 4520		prEN 13982-1: 2000(4530/4540), EN ISO 13982-1: 2004(4560): Limited protective performance Type 5: Against hazardous dry particles (dustproof)
4560		EN 14605: 2005: Limited protective performance Type 4: Against liquid chemicals (spraytight)
4560		EN14126: 2003 Biological Hazard Protection
4540, 4560, 4520		EN 1073-2: 2002 CLASS 1: Protective clothing against radioactive particulate contamination
4530, 4540, 4560, 4520		EN 1149-1: 1995: Protective clothing Electrostatic properties
4530		EN 533 Index 1/0 Fire retardancy

3M™ Protective Coveralls

3M™ Protective Coveralls

3M™ 4520 Protective Coverall Type 5/6, unique features “Lightweight Protection for all day Comfort”

Extremely lightweight material

- Breathable material for extra comfort and reduced heat stress

Meets EN1073-2 standard

- Suitable for protection against radioactive particulate contamination

Colour

- White

Typical Applications

- Light duty maintenance
- Asbestos handling
- Abattoirs/Farming
- Construction work
- Wood/Metal processing



3M™ 4530 Protective Coverall Type 5/6, unique features “Breathable Comfort for all day”

Very breathable material

- For reduced heat stress and comfortable wear, yet providing excellent protection against hazardous dusts and liquid splashes (type 5/6)

Flame retardant index 1/0

- When used over an index 2 or 3 fire retardant material

With gusset

- For extra freedom of movement

Colour

- Blue

Typical Applications

- Food processing
- Wood processing
- Asbestos handling
- Insulation laying
- Light duty maintenance



3M™ Protective Coveralls

3M™ 4540 Protective Coverall Type 5/6, unique features “Combined Performance and Comfort”

Laminated microporous material

- Offering excellent robustness and low linting properties

Breathable back panel

- For improved air circulation and reduced heat stress

Excellent protection

- Against hazardous dusts (including nuclear particles) and liquid chemical splashes (type 5/6)

With gusset

- For extra freedom of movement

Colour

- White

Typical Applications

- Paint Spraying
- Asbestos handling
- Light-duty industrial cleaning and maintenance
- Pharmaceutical processing



3M™ 4560 Protective Coverall Type 4/5/6, unique features “Extra Protection and Durability”

Laminated microporous material

- Offering excellent robustness and low linting properties

Taped seams

- Across the suit for increased protection and durability

Suitable for biological protection

- Meets EN14126

Colour

- White

Typical Applications

- Paint Spraying
- Asbestos stripping
- Chemical mixing and preparation
- Protection against infectious agents (e.g. avian flu)



3M™ Protective Coveralls

3M™ Protective Coveralls

Selection Guide: Protective Coveralls Usage Chart

Hazard Application	3M 4520 CE 5/6	3M 4530 CE 5/6	3M 4540 CE 5/6	3M 4560 CE 4/5/6
Paint spraying (Isocyanates and solvents)			✓	✓
Paint applications	✓	✓	✓	✓
Chemical cleanups			✓	✓
Pesticide spraying				✓
Ground level Pesticide applications			✓	✓
Contaminated land				✓
Asbestos stripping				✓
Asbestos handling	✓	✓	✓	✓
Pharmaceutical manufacture	✓	✓	✓	✓
Insulation laying	✓	✓	✓	✓
Woodworking	✓	✓	✓	✓
Resin application	✓	✓	✓	✓
Chemical Handling with limited splash			✓	✓
Light spray cleaning fluids			✓	✓
Medical applications (incl exposure to biological agents)				✓
Radioactive dust			✓	✓
Pressure/ steam water cleaning	✓	✓	✓	✓
Domestic non Hazardous light Dust/Spray	✓	✓	✓	

✓ Suitable ✓ Most appropriate product

This guide is only an outline. It is designed to help focus on the most appropriate products in the 3M range for various applications and hazards. It should not be used as the only means of selecting a product. Details regarding performance and limitations are set out on the product packaging and fact sheets. In all cases a risk assessment should be carried out and use limitations considered to ascertain the protection required.

3M™ Accessories

3M™ 450 Overboots

The 3M 450 Overboot is offered as an accessory to the 3M range of Protective Coveralls.

Elasticated at calf

- For convenient wear over boots or shoes

Ties at ankle

- To secure in place

Colour

- White

Size

- Universal

Typical application

- Asbestos handling
- Abattoirs/Farming
- Pharmaceutical processing

This product is an accessory and is not intended for use as Personal Protective Equipment (PPE). A risk assessment should be carried out by a trained safety professional to ensure that appropriate Personal Protective Equipment is selected and worn correctly.



3M Coveralls Core Features

3M™ Coveralls Core Feature	4520	4530	4540	4560
Elasticated hood, waist and ankles	•	•	•	•
Knitted cuffs		•	•	•
Elasticated cuffs	•			
Two-way zip	•	•	•	•
Resealable storm flap		•	•	•
Anti-static properties	•	•	•	•
Sizes M to XXL	•	•	•	•
20 items per case	•	•	•	•

3M™ Safety-Walk™ Non-Slip and Anti-Fatigue Surfacing



3M offer a full range of floor level safety products to minimise risk in many industrial applications. Our antislip surfaces reduce slip, trip and fall accident rates helping to keep down compensation claims and insurance premiums.

Anti Slip Surfacing

General Purpose Grade

Abrasive particles bonded by a tough, durable polymer to a dimensionally stable plastic film to provide an effective antislip surface in most shoe traffic applications.

Coarse Grade

Large abrasive particles bonded by a tough, durable polymer to a dimensionally stable plastic film to provide an effective antislip surface in most shoe traffic applications.

Conformable Grade

Abrasive particles bonded by a tough, durable polymer to an aluminium foil to conform to irregular surfaces.

Medium Resilient Grade

Medium surface texture with plastic, granulate coating to provide a soft, comfortable, hygienic, slip-resistant covering.

Fine Resilient Grade

Fine surface texture with plastic, granulate coating providing a comfortable, hygienic barefoot antislip covering with an excellent aesthetic impact.

Anti Fatigue Surfacing

3M™ Safety-Walk™

Cushion Matting 5100

Description

- Durable, flexible vinyl mat with an open construction for safety and comfort
- Z-web structure helps improve traction and provides good cushioned support
- Open structure allows liquid and small particles to pass through, providing a safer, drier surface
- Construction allows easy traffic of cars over the surface
- Vinyl composition provides excellent resistance to a variety of chemicals, greases and detergents

Applications

- Use in industrial and food service applications to provide excellent anti-slip properties and a good cushioning effect
- Excellent performance on steel grids

Sizes and Colours

- 0.9 x 1.5m, 0.9 x 3.0m, 0.9 x 6.0m
- Available in black and oxide red



3M™ Safety-Walk™ Cushion Matting 5270E

Description

- Flat topped vinyl anti-fatigue matting provides exceptional cushioned support evenly distributed across the bottom of the shoe, reducing leg and back fatigue
- Textured top helps improve traction and allows debris and liquid to stay on top of the mat for easy clean up
- Available with integral edging (5270E) that allows the movement of wheeled traffic

Applications

- Dry work areas such as assembly lines and production areas.
- Excellent suitability for kneeling

Sizes and Colours

- 0.9 x 1.5m, 0.9 x 3.0m, 0.9 x 6.0m
- Available in black

3M™ Safety-Walk™

Cushion Matting 3270E

Description

- Flat topped vinyl anti-fatigue matting providing cushioned support evenly distributed across the bottom of the shoe, reducing leg and back fatigue
- Textured top helps improve traction and allows debris and liquid to stay on top of the mat for easy clean-up

Applications

- Use as a fatigue-resistant mat in dry areas where workers stand or walk
- Factory assembly, production areas, or any other dry work area with limited chemical exposure

Sizes and Colours

- 0.9 x 1.5m, 0.9 x 3.0m, 0.9 x 6.0m
- Available in black



Respiratory

Dusts

Produced when solid materials are broken down into fine particles. The longer dust remains in the air, the easier it is to inhale.

Mists

Tiny liquid droplets formed by atomisation and condensation processes such as spraying. Often a combination of several hazardous ingredients.

Metal Fume

Occurs when metals are vaporised under high heat. The vapour cools quickly and condenses into very fine particles that float in the air.

APF - Assigned Protection Factor

As detailed in HSG53, the level of respiratory protection that can realistically be achieved in the workplace by 95% of adequately trained and supervised wearers.

NPF - Nominal Protection Factor

The theoretical protection level of a respirator based on laboratory measured performance data.

WEL

Workplace Exposure Limit.

FFP

Filtering Face Piece.

CE Marked

Meets the requirements of EC Directive 89/686.

Filter Codes

P	Particulates e.g. dusts, mists, metal fume
A	Organic gases/vapours above 65°C
B	Inorganic gases
E	Acid gases
K	Ammonia
AX	Organic gases/vapours below 65°C
Hg	Mercury

Hearing

dB Decibel

Unit of sound/ noise measurement.

dB(A)

Decibel scale weighted to reflect the performance of human hearing.

Attenuation

Effective protection level.

SNR (Single Number Rating)

The average level of protection a device can offer across the frequency level between 63Hz and 8000Hz.

3M Health and Safety Helpline

0870 60 800 60 (UK), 1 800 320 500 (Ireland)

Diverse range of personal protective equipment*

The combined portfolio of 3M™, Peltor™ and E-A-R™ products includes high-quality, innovative solutions to protect people at work.

Here are some examples:

Respiratory protection



Hearing protection



Eye protection



Head protection



Welding protection



Protective coveralls



*Photos of product examples

For more information about our products and services visit our website at www.3M.co.uk/ohes



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