Science. Applied to Life.™

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3M Automotive Aftermarket Division

Safety Product Catalogue 3M helps keep everyone safer in a changing world. From sanding, grinding, buffing and welding to spray painting operations, our technology, expertise and energy drive innovative solutions to help you control your environment so you can focus on the job at hand.

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3M provides safety solutions that improve comfort while helping employers increase compliance, with personal protective equipment for everything from your eyes to ears and respiratory system.

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3M Health & Safety

Why Consider Health and Safety?

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Take your health and safety seriously - know the risks

Working in a bodyshop environment can expose you and your team to a range of hazards including:

- Airborne hazards such as fibres, particles from sanding, grinding or polishing; gases, vapours and mists from paints, solvents, adhesives and welding fumes. Even brief, unprotected exposure to some paint mists and vapours, or welding fumes, can cause irritation, illness or lead to serious health problems
- Loud noise from machine tools can cause temporary hearing loss and even permanent hearing loss. Noise-induced hearing loss isn't obvious – it's gradual damage that adds up over time. It's easy to think that you don't need to use hearing protection – until it's too late
- Dust and flying particles, chemical splashes and vapours can cause eye injuries and skin irritation
- Optical radiation from tasks such as welding or UV curing can lead to serious eye injuries



Sanding, grinding and paint rectification

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Sanding, grinding and machine compounding activities generate airborne particles such as filler dust. When inhaled, larger particles can cause irritation of the nose, throat and upper airways. Fine particles can penetrate into the lung and can cause tissue damage leading to shot and long-term respiratory health effects/diseases. Filtering respirators are widely worn in bodyshops to help reduce exposure to particles. They work by trapping particles as the ambient air passes through them as the wearer breathes. Filtering respirators must seal adequately to the wearer's face, therefore wearers must be clean shaven and have passed a fit test.

Applying coatings, adhesives and sealers

Coatings, adhesives and sealers produce airborne hazards whether they are sprayed or brush/cloth applied. When they are sprayed, a fine mist is generated together with solvent vapour. When they are brush/cloth applied solvent vapour will become airborne. Solvent vapours, once inhaled can be absorbed into the blood and if in sufficient quantity, can cause damage to the liver, kidneys and brain. Filtering respirators offering protection against particles and vapours are typically used in these applications. Goggles should be used to protect the eyes.





Welding

Welding produces many hazards – electrical hazards, light hazards, metal fume, thermal hazards and gases including Ozone. Metal fume consists of very fine particles which may damage the lungs and cause short term adverse health effects such as metal fume fever and other longer-term respiratory illnesses. Ozone can also result in irritation and damage of the upper respiratory tract and longer-term lung damage. Welding shields must be used to provide eye and face protection. Respiratory protection worn under the welding shield will reduce exposure to metal fume, however for welding applications a respirator that additionally provides Ozone protection is required.

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Legislation

Health and Safety legislation places a general duty on employers so far as is reasonably practicable, to ensure the health, safety and welfare at work of their employees and others who maybe affected by their work activities.

There are various regulations in place to enforce H&S legislation. For example employers are required to:

- Conduct a risk assessment
- Implement a hierarchy of controls to eliminate, prevent or reduce exposure to hazardous physical conditions and substances
- PPE may be used where other control measures are not practical or feasible to control risks to workers health and safety. Tight-fitting respirators must be fit tested in accordance with national regulations (if applicable)

Employee Duties

Legislation requires that employees (and the self-employed) are required to take reasonable care of their own safety and that of other people who may be affected by their actions. They are also required to co-operate with their employer to enable legal obligations to be met.

Selecting the Correct Personal Protective Equipment (PPE)

Selecting the right PPE is critical. Inadequate protection can create serious health issues over time. 3M provides safety solutions you need to work safely, comfortably and effectively, with PPE for everything from your eyes to your ears and respiratory system:

- Disposable flat fold and cup shaped respirators
- ► Reusable half and full face respirators
- Powered and supplied air systems
- Eye and face protection
- Disposable and reusable ear plugs, ear muffs
- Communication solutions
- Welding protection
- Disposable and reusable protective coveralls



3M[™] Personal Protective Equipment

The 4-Step Method

Selecting and specifying the appropriate Personal Protective Equipment (PPE) may appear daunting with so many factors to consider and so many options to choose from. With our simple 4-step method it's easy to choose the correct level of protection and comfort required to optimise protection:

1. Identify the hazards

Dust, metal fume, gas, vapour, loud noise, flying particles, optical radiation, etc.



2. Assess the risk

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Assess the hazard levels against safety standards and consider all aspects of protection, e.g. respiratory, skin, eye, face, head and body.





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1. The 3M[™] Sound Detector SD-200 is a compact, lightweight sound level meter, designed to accurately measure workplace noise levels.

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2. The 3M[™] Noise Indicator[™] NI-100 alerts users to potentially harmful noise levels, helping to identify areas where hearing protection may be required.

3. 3M[™] Organic Vapour Monitor Badges measure personal exposure to hazards.

3. Select the right PPE

 Respiratory protection, eye and face protection, hearing protection & body protection.



4. Train in fitting and use

Make sure you know how to use and maintain your PPE to ensure effective respiratory protection. 3M sales and technical professionals can help you to define your training needs and can provide training and on-site consultations on all aspects of respiratory protection tailored to your individual needs. You'll also find easy to use training on our website:

www.3M.eu/PPESafety



Respiratory Protection

3M Product Selection Guide

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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. It is ultimately the responsibility of the employer to select the most appropriate PPE and level of protection required based on a full risk assessment. Details regarding performance and limitations are set out on the product packaging and data sheets.

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Products to co	nsider		Disposable Particu	alate Respirators			Reusable Resp	irators
		_	3M [™] Aura [™] Particulate Flat Fold Respirators 06910+, 06923+ & 06933+	3M [™] Particulate Cup Shaped Respirators 06936+ / 06922 / 06983 / 06988	3M [™] Welding Fume Respirator 06920	3M [™] Speciality Particulate Respirator 06998	3M [™] Maintenance Free Reusable Respirators 06941 / 06942	3M [™] Reusable Half Masks 06962 / 06963 / 7502 / 7503
Application*	Typical hazards	Typical protection types required*) J			VO.	
Bonding	Solvent containing Adhesives	Organic vapour					✓ & safety eyewear	with 06911 / 06915 filters & safety eyewear
Adhesives, Coatings and Sealers	Polyurethane Coating	Gas & vapour						with 6059 filters & safety eyewear
	Organic Solvent/ with boiling point less than 65°C	Low boiling point organic vapour combination						×
	Ammonia Based Paint Remover	Gas & vapour						✓ with 6059 filters & safety eyewear
Degreasing	Solvent vapours	Gas & vapour						✓ with 6059 filters & safety eyewear
Grinding	Dusts and other fine particles	Particulate	✓ & safety eyewear	✓ & safety eyewear	✓ & safety eyewear	✓ & safety eyewear	✓ & safety eyewear	 ✓ & safety eyewear & 6035 / 06925 / 5935 filter
Hand Sanding	Dusts and other fine particles	Particulate	& safety eyewear	✔ & safety eyewear	≮ & safety eyewear	✓ & safety eyewear	& safety eyewear	✓ & safety eyewear & 6035 / 06925 / 5935 filters
Machine Sanding	Dusts and other fine particles	Particulate	& safety eyewear	✓ & safety eyewear	≮ & safety eyewear	✓ & safety eyewear	& safety eyewear	✓ & safety eyewear & 6035 / 06925 / 5935 filters
Mixing Paint (where there is sufficient ventilation)**	Solvent-Based Paint	Organic vapour particulate combination					& safety eyewear	 ✓ & safety eyewear & 06911 or 06915 + 06925 / 5935 filters + 501
Painting & Spraying**	Solvent-Based Paint	Organic vapour particulate combination					✓ & safety eyewear	& safety eyewear & 069 or 06915 + 06925 / 5938 filters + 501
	Water Soluble Paint	Organic vapour particulate combination					✓ & safety eyewear	& safety eyewear & 069 or 06915 + 06925 / 5938 filters + 501
	Solvents, Resins, Synthetic Resins	Organic vapour particulate combination					✓ & safety eyewear	✓ & safety eyewear & 069 or 06915 + 06925 / 5935 filters + 501
	Latex-Paint, Residual Solvents	Organic vapour particulate combination					✓ & safety eyewear	✓ & safety eyewear & 069 ⁻ or 06915 + 06925 / 5938 filters + 501
	Isocyanates found in two-pack paints**	Organic vapour particulate combination						
Polishing & Compounding	Dusts and other fine particles	Particulate	✓ & safety eyewear	✔ & safety eyewear	✓ & safety eyewear	✓ & safety eyewear	& safety eyewear	 ✓ & safety eyewear & 6035 / 06925 / 5925 / 5935 filters
Welding	Welding fumes/ Ozone gas	Particulate/ welding fume/ ozone UV/IR light			✓ with welding helmet		✓ with welding helmet	

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Key

- May be suitable for use
 Not suitable for use
 Specific hazards and protection required need to be assessed by the user
 ** Follow local legislation on Isocyanate use

	Powered and Supplied Air			Welding Protection	on	
3M [™] Reusable Full Face Masks 6800/6900	3M [™] Supplied Air System 06972	3M [™] Versaflo [™] Supplied Air System	3M [™] Jupiter [™] Powered Air Turbo	3M [™] Speedglas [™] Welding Helmet 10V	3M [™] Speedglas [™] Welding Helmet 100 Series	3M [™] Speedglas [™] Welding Helmet 9100V
		02			•	5
with 06911 / 06915 filters	plus safety eyewear depending on reusable respirator used	~	✓ with 453-00-25P filters			
✓ with 6059 filters	plus safety eyewear depending on reusable respirator used	~	✓ with 453-09-25P filters			
✓ with 6098 filters	plus safety eyewear depending on reusable respirator used	~				
✓ with 6059 filters	plus safety eyewear depending on reusable respirator used	~	✓ with 453-09-25P filters			
✓ with 6059 filters	plus safety eyewear depending on reusable respirator used	~	with 453-09-25P filters			
◆ 6035 / 06925 / 5925 / 5935 filters	& safety eyewear depending on reusable respirator used	~	with M-106 and the 450-00-25P Filter			
◆ 6035 / 06925 / 5925 / 5935 filters	 safety eyewear depending on reusable respirator used 	~	✓ with 450-00-25P Filter			
◆ 6035 / 06925 / 5925 / 5935 filters	 & safety eyewear depending on reusable respirator used 	*	✓ with M-106 and the 450-00-25P Filter			
♦ 06911 or 06915 + 06925 / 5935 filters + 501	& safety eyewear depending on reusable respirator used	*	✓ with the 453-00-25P Filter			
◆ 06911 or 06915 + 06925 / 5935 filters + 501	 & safety eyewear depending on reusable respirator used 	~	with the 453-00-25P Filter			
◆ 06911 or 06915 + 06925 / 5935 filters + 501	& safety eyewear depending on reusable respirator used	*	✓ with the 453-00-25P Filter			
✓ 06911 or 06915 + 06925 / 5935 filters + 501	 & safety eyewear depending on reusable respirator used 	*	✓ with the 453-00-25P Filter			
◆ 06911 or 06915 + 06925 / 5935 filters + 501	& safety eyewear depending on reusable respirator used	~	✓ with the 453-00-25P Filter			
	*	~				
◆ 6035 / 06925 / 5925 / 5935 filters	& safety eyewear depending on reusable respirator used	*	✓ with the 450-00-25P Filter			
				✓ with respiratory protection	✓ with respiratory protection	✓ with respiratory protection

Automotive Aftermarket Division

The Importance of Fit

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

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Here's what to look for:

- Upper strap should be positioned on the crown of the head. Strap should not be twisted
- Respirator should be correctly positioned on your face and head —
- Lower strap should be positioned below the ears. Strap should not be twisted
- Care must always be taken to ensure other safety equipment is compatible with your respirator and does not interfere with its fit, for example, straps should always be fitted underneath safety eyewear and hoods



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



- For flat fold respirators make sure the panels are fully unfolded
- Noseclip should be moulded around nose and cheeks to give a good seal. Using both hands, mould noseclip to the shape of the lower part of the nose to ensure a close fit and good seal. Do not pinch the noseclip with only one hand as this may not give a good fit



Fit check

- A pre-use fit check must be conducted every time you fit your respirator.
- Ensure that you read the product user instructions for full details

For Disposable Respirators:

Cover the front of the respirator with both hands. For an unvalved respirator **exhale** sharply, for a valved respirator **inhale** sharply

For Reusable Respirators:

Place the palm of your hand over the exhalation valve and **exhale** gently or cover the filters and **inhale** gently

- If air leaks at the respirator edges, re-adjust the fit to eliminate leakage and repeat the above fit check
- If air leaks around the nose, re-adjust the noseclip to eliminate the leakage
- If you cannot achieve a proper fit do not enter the hazardous area see your supervisor



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The Importance of Fit

Fit testing

Fit testing checks that a respirator provides an adequate seal to the wearer's face and is an industry wide requirement in some countries. Fit testing should be carried out on all wearers of respirators with tight fitting facepieces where testing has not been carried out before. Testing should be repeated at appropriate times, such as annually, or if the wearer's face shape changes due to weight loss or gain, or facial surgery.

Fit test methods - quantitative and qualitative

Two main methods of fit testing are available, qualitative and quantitative fit testing.

Quantitative fit testing checks that the wearer can achieve an adequate seal between a tight-fitting facepiece and their face. It counts the number of particles both inside the mask and outside in the ambient air. From this, a fit factor – a measure of how well a respirator fits – is calculated. Fit testing equipment such as the TSI® PortaCount® Fit Tester are suitable for testing all types of tight-fitting respirator, disposable respirators as well as half-mask and full-face masks used with particulate or combination filters.

Qualitative fit testing provides a pass or fail result based on the wearer detecting a test agent. It provides a subjective measure of the quality of the seal of the facepiece to the wearers face. These tests are suitable for disposable respirators and half masks. The test agent can either be detected by taste or by smell. A controlled concentration of aerosol is introduced into a hood fitted over the wearer. This test is suitable for all disposable respirators and half masks fitted with particulate or combination gas/vapour and particulate filters. 3M offer two test kits in this category, one using a sweet tasting substance (saccharin) and the other which uses a bitter tasting solution (Bitrex®).

For further information on fit testing procedures, contact your safety officer or 3M.

3M[™] Qualitative Fit Test Kits FT10 (Sweet) & FT30 (Bitter)

3M products that can be used with the 3M FT-10/FT-30 kits are:

- All 3M Disposable Respirators
- 06941 & 06942 Reusable Respirators
- 06962 & 06963 Reusable Half Masks
- 7502 & 7503 Reusable Half Masks

3M offer two fit test kits FT-10 (Sweet) and FT-30 (Bitter). Each kit contains a hood and collar assembly, two nebulisers, sensitivity solution, test solution and detailed user instructions.

Note: The 3M FT-10/FT-30 kits can not be used with Full Face Masks – quantitative fit testing methods must be used. See local regulations on fit testing or contact 3M.

Disposable Particulate Respirators

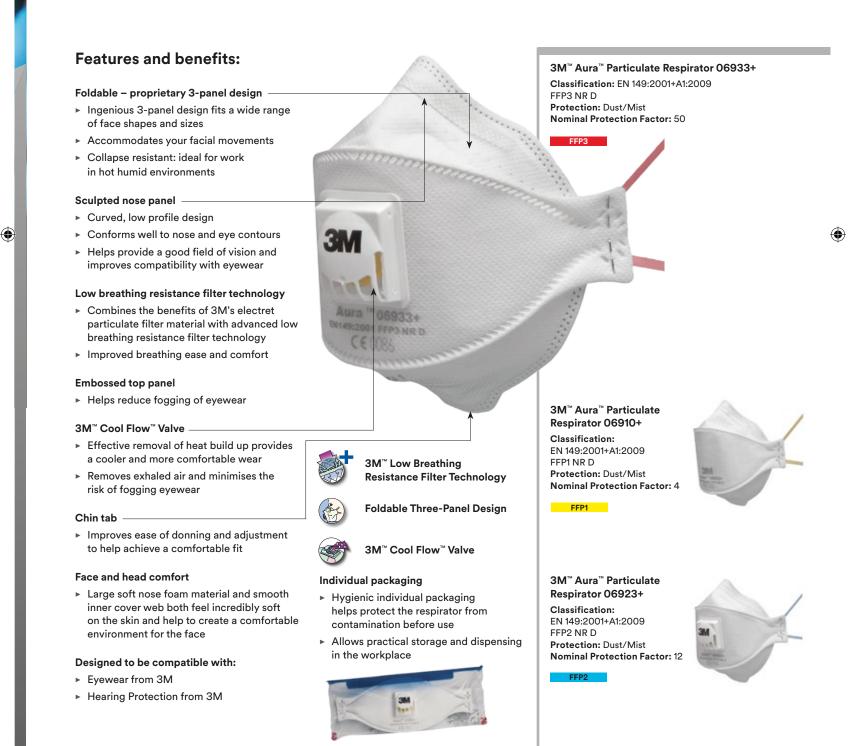
3M[™] Aura[™] Particulate Flat Fold Respirators 06910+, 06923+ & 06933+

The 3M[™] Aura[™] Particulate Flat Fold Respirators are the result of 3M's continuous drive to improve comfort.

Features include low breathing resistance filter technology for easier breathing throughout your shift, an embossed top panel to reduce fogging of eyewear, a sculpted edge for improved compatibility with eyewear and a chin tab to improve ease of fitting.

Typical Applications

- Construction
- Dry sanding
- Hand sanding
- Machine sanding
- Grinding
- Sweeping
- Buffing
- Polishing
- Compounding



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3M[™] Particulate Cup Shaped Respirator 06936+

The 3M[™] Cup Shaped Respirator 06936+ has been engineered to help improve fit to wearer's individual face shape and size.

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With its robust shell and cup design, this respirator meets the particular requirements of the clogging test for FFP (filtering face piece) respirators and is EN 149 'R' rated which means that it may be used for more than one shift.



Typical Applications

- Construction
- Dry sanding
- Hand sanding
- Machine sanding

FFP3 R D

PolishingCompounding

► Grinding

Sweeping

► Buffing

Features and benefits:

Proprietary soft inner face seal -

- Flexible material helps form comfortably onto a wide range of face shapes and sizes
- Innovative contoured design engineered to help provide a more secure seal around the nose
- Comfortable feel on the skin
- Easy to clean for wearer hygiene using the 3M[™] Face Seal Cleaning Wipe 105 (as per EN 149+A1)
- Designed to help reduce eyewear fogging

Innovative design

- Engineered to help improve fit to wearer's individual face shape and size
- EN 149 'R' Rated. Reusable this mask can be used for more than one shift
- Collapse resistant: works well in hot humid environments
- Modern and stylish
- Easy to don and doff

3M[™] Advanced Electret Filter Media (AEM)

- High performance filter material that's easy to breathe through
- Meets the clogging test requirements of EN 149:2001+A1:2009
- Consistent high quality performance

3M[™] Cool Flow[™] Valve

 Effective exit of heat build up provides a cooler and more comfortable wear and helps to minimise the risk of fogging eyewear

Adjustable braided headbands

- ▶ 4-point adjustment helps to provide a more secure feel
- Comfortable on the head and neck

Materials

- This product does not contain components made from:
 - natural rubber latex
 - ▶ metal
- PVC

Designed to be compatible with:

- Safety Eyewear from 3M
- Hearing protection from 3M

Nominal Protection Factor: 50

3M[™] Particulate Respirator 06936+

3M[™] High Performance

3M[™] Cool Flow[™] Valve

Adjustment Buckle Straps

Filter Material

Face Seal

Classification: EN 149:2001+A1:2009

Protection: Dust/Mist/Metal Fume

3M[™] Particulate Cup Shaped Respirators 06922, 06983 & 06988

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The 3M[™] Cup Shaped Respirators Series provide lightweight, comfortable and effective respiratory protection against dust and mist. The convex shape, twin strap design, nose foam and nose clip ensure comfortable wear over a range of face sizes.

The collapse resistant shell and 3M[™] Cool Flow[™] Valve in the 06922 respirator offers durable, comfortable protection particularly in hot and humid conditions.

Features and benefits:

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Typical Applications

- Hand sanding
- Machine sanding
- Grinding



3M[™] Welding Fume Respirator 06920

The 3M[™] Welding Fume Respirator 06920 provides lightweight, effective, comfortable and hygienic respiratory protection against dust, mist and metal fumes and resist clogging for extended use against welding fume. The convex shape enhances wearer comfort; the 3M[™] Cool Flow[™] Exhalation Valve reduces heat build up, particularly in hot humid work conditions. The 4-point adjustable straps and adjustable nose clip help achieve a comfortable fit. The 06920 has been designed specifically for welding applications to provide protection against ozone and welding fumes, plus relief from nuisance odours.



Typical Applications

- MIG weldingTIG welding
- ARC weldingSoldering

Features and benefits: 3M[™] Welding Particulate **Respirator 06920** Robust shell and cup design **Classification:** EN 149:2001+A1:2009 ► Flame retardant outer surface FFP2 NR D minimises the effect of welding splatter Protection: Dust/Mist/Ozone/Nuisance level odours Conforms well to most face shapes and sizes Nominal Protection Factor: 10 for Ozone and Particulates Collapse-resistant 3M[™] Cool Flow[™] Valve Effective removal of heat 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 Adjustable braided headbands Help provide comfort to face, head and neck Designed to be compatible with: ► Eyewear from 3M Hearing Protection from 3M SM[™] Speedglas[™] Welding Headtop 3M[™] High Performance Welding shields – low profile design Filter Material for compatibility with welding shields 3M[™] Cool Flow[™] Valve **Adjustment Buckle Straps Activated Carbon**

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3M[™] Speciality Particulate Respirator 06998

The 06998 has been developed to provide lightweight, effective, comfortable and hygienic respiratory protection for a range of working environments.

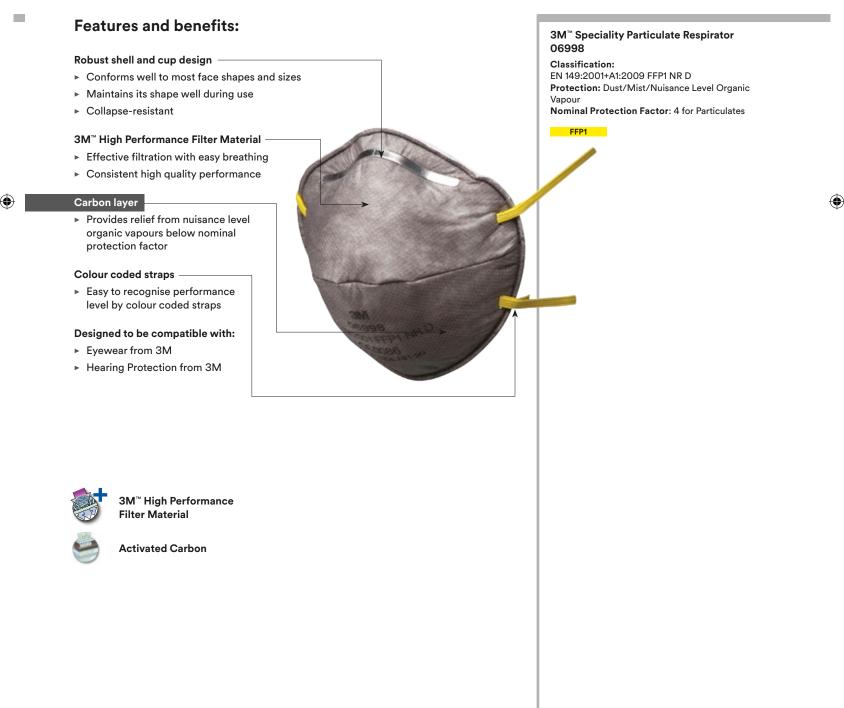
The 06998 protects against dust and mist and also features an integrated activated carbon layer, offering relief from nuisance organic vapour odours below nominal protection factor.



Typical Applications

- Hand sanding Machine sanding

- Polishing ► Compounding
- Grinding



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Reusable Respirators

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3M[™] Maintenance Free Reusable Respirators 06941 & 06942

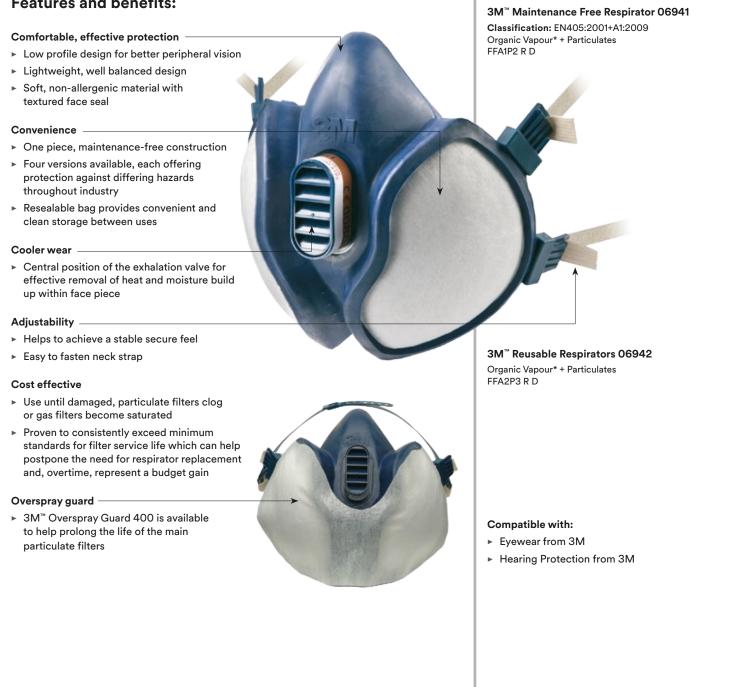
With no parts assembly or maintenance required this simple, lightweight, well balanced respirator offers reliable respiratory protection against a range of gases, vapours and particulates typically found in a variety of industries. A unique bonded carbon technology allows the respirator to sit close to the face and fit well under many other types of protective equipment, providing an undisturbed field of vision and a more comfortable worklife.



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Typical Applications

- Painting
- Spraying
- Varnishing
- Degreasing
- Mixing paint



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Features and benefits:

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3M[™] Reusable Respirators

3M[™] Filters for use with **Reusable Respirators**

3M has developed a range of filters for use with its half and full face masks that offer effective protection against gases, vapours and particles. The unique Bayonet Filter Attachment System allows the filters to just be clicked into place ensuring optimum ease of use.

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3M[™] Particulate Filters

Filter	Protection level	Protection against	
06925	P2 R	solid and liquid particles	
5935†	P3 R	solid and liquid particles	
6035	P3 R	solid and liquid particles – in solid plastic case for rough application	120
501		filter retainer	S

3M[™] Gas and Vapour Filters

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Filter	Protection level	Protection against	
06911	A1	organic gases & vapours boiling point (bp)>65°C	
06915	A2	organic vapours bp>65°C	Ś
6059	ABEK1	organic vapours (bp>65°C), inorganic vapours, acid gases ammonia and its derivatives	

3M[™] Gas, Vapour and Particulate Filters

Filter	Protection level	Protection against	
6098*	AXP3 NR	single compound organic vapours (bp<65 °C) and particulates	

* Only for full face masks

Accessories for 3M Half Masks



3M[™] Face Seal

3M[™] Organic Vapour Badges

3M[™] organic vapour badges are simple and effective devices that collect certain gas/vapour airborne contaminants using the principle of diffusion. They assist in the assessment of workplace contaminant measurement, both personal and background.

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The filters shown above conform with the European Standards: EN14387 and/or EN143.

+ 06925 and 5935 filters can be used with 06941, 06942 & 6059 gas and vapour filters for combined gas and particulate protection in conjunction with a 501 filter retainer.

3M[™] Reusable Half Face Masks 06962 & 06963

The 3M[™] Reusable Half Masks 06962 and 06923 are economical, low-maintenance, simple to handle and lightweight. Available in two sizes, 06962 (medium) and 06963 (large), all masks have the 3M[™] Bayonet Connection System allowing connection to a broad range of twin filters to protect against gases, vapours and particulates depending on your individual needs. These half masks can also be used with 3M[™] Supplied Air Systems for your increased convenience and flexibility.



Typical Applications

3M[™] Half Mask 06962 (Medium) Classification: EN140:1998

- Painting
- Spraying
- Coating
- Welding

Features and benefits:

Head harness

- Designed for compatibility with other 3M head and eye protection
- Cradle suspension for comfortable fit
- Easy to fasten neck strap

Facepiece

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- Colour coded sizes for easier identification
- Lightweight elastomeric material for comfort during long periods of work
- Low weight of 82g

Low-profile design

- Minimises interference with field of view
- More simplicity for easy handling

Filter connection

- Twin filter design provides lower breathing resistance
- Better weight distribution and a more balanced fit
- Improved peripheral vision
- ► Safe and secure fit
- Optical marking of attachment point
- Flexible system for gas, vapour, particulate filters
- Optional supplied-air connection

Compatible with:



3M[™] 06972 Supplied Air System 3M[™] Half Mask 06962 – medium (grey) 3M[™] Half Mask 06963 – large (dark grey)

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Starter Kits Available

3M[™] 06967 A1P2 R Respirator Starter Kit – medium 3M[™] 06968 A1P2 R Respirator Starter Kit – large 3M[™] 06980 A2P3 R Respirator Starter Kit – medium 3M[™] 06981 A2P3 R Respirator Starter Kit – large ۲



3M[™] Reusable Half Face Masks 7502 & 7503

The 7502 & 7503 Respirators by 3M have set a new standard in comfort. This facepiece was designed with the wearer in mind. Its soft sealing surface, along with the unique 3M[™] Cool Flow[™] Valve, enhances wearer comfort and face fit. Reduced breathing resistance helps to minimise heat build-up in the mask and increases your comfort.

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Available in two sizes, 7502 (medium) and 7503 (large), all masks have the 3M[™] Bayonet Attachment System offering a broad range of twin lightweight filters to protect against gases, vapours and particulates depending on your individual needs and can also be used with 3M[™] Supplied-Air Systems.

Features and benefits:

Head harness

- Balanced, secure fit
- Reduced pressure and tension points

Facepiece

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- DropDown feature for added convenience during breaks
- Designed for compatibility with 3M head and eye protection
- Soft silicone face piece material for comfort and durability
- Thin nose bridge area for more comfort
- ► Fully maintainable
- ▶ Low weight of 136 gr.

3M[™] Cool Flow[™]

Exhalation Valve

- Less exhalation resistance
- Easier breathing
- Less heat and sweat build-up
- Reduces valve vibration
- Downwards flow of exhaled air

Low-profile design

- Minimises interference with field of view
- Minimised dirt-traps
- Reduced fogging with eye protection
- Sleek look and feel

Filter connection

- Twin filter design provides lower breathing resistance
- Better weight distribution and more balanced fit
- Improved peripheral vision
- Safe and secure fit
- Optical marking of attachment point
- Flexible system for gas, vapour, particulate filters
- Optional supplied-air connection



Typical Applications

- Painting
- Spraying
- Coating
- Welding

3M[™] Half Mask 7503 (Large) Classification: EN140:1998

3M[™] Half Mask 7502 – medium (light blue) 3M[™] Half Mask 7503 – large (dark blue)

Starter Kits Available

3M[™] 06772 A1P2 R Respirator Starter Kit – medium 3M[™] 06773 A1P2 R Respirator Starter Kit – large 3M[™] 06782 A2P2 R Respirator Starter Kit – medium 3M[™] 06783 A2P2 R Respirator Starter Kit – large ۲

Compatible with:



3M[™] 06972 Supplied Air System

For filter selection, please see page 20

3M[™] Reusable Full Face Masks 6800 & 6900

The 3M[™] Full Face Masks 6800 and 6900 are simple to handle and comfortable to wear. The exhalation port provides increased durability and is easy to keep clean.

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Available in two sizes, 6800 (medium) and 6900 (large), both masks have the 3M[™] Bayonet Connection System enabling connection to a broad range of twin lightweight filters to protect against gases, vapours and particulates depending on your individual needs



Typical Applications

- Painting
- Spraying
- Coating
- Welding

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Features and benefits:

Full face piece

- Soft, non-allergenic elastomeric face piece
- Extremely lightweight (400 grams) for high comfort

Full face lens -

- Broad field of vision
- Polycarbonate lens, scratch and impact resistant to EN166:2001 B

4 strap head suspension -

- Easy to put on and take off
- Well balanced

3M[™] Cool Flow[™] Exhalation Valve

- Less exhalation resistance
- Easier breathing
- Less heat and sweat build-up
- Reduces valve vibration
- Downwards flow of exhaled air
- Minimised dirt-traps to stay clean
- Sleek look and feel

Filter connection -

- Twin filter design provides lower breathing resistance
- Better weight distribution and more balanced fit
- Improved peripheral vision
- Safe and secure fit
- Optical marking of attachment point
- Flexible System for gas, vapour, particulate filters
- Optional supplied-air connection

Compatible with:



3M™ 06972 Supplied Air System

3M[™] Full Face Mask 6800 (Medium) Classification: EN136:1998 (Class 1)

Available in two sizes: 3M[™] Full Face Mask 6800 – medium 3M[™] Full Face Mask 6900 – large

Accessories for 3M[™] Full Face Masks

3M[™] Face Seal Wipe 105



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3M[™] Full Face Carry/ Storage Bag 107



For filter selection, please see page 20

Powered & Supplied Air Respirators

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3M[™] Individual Respirator Systems

3M[™] Supplied Air System 06972

The 3M[™] Supplied Air Respirator System 06972 is a comfortable and versatile supplied air respirator system for use with the 3M[™] Half Masks (06962, 06963, 7502 & 7503) and 3M[™] Full Face Masks (6800 & 6900). The 06972 System by 3M can be used as a standard airline respirator system or in dual-mode with filter back-up when air supply is disconnected.

Engineered to deliver additional comfort and security, the 06972 features double-action safety couplings to help minimise the risk of accidental disconnection during use and an adjustable airflow feature so you can control the air across your face for maximum comfort.

Features and benefits:

Cool and comfortable

 Lightweight and balanced system with a constant flow of air across the face for a cooler and more comfortable wear

Adjustable airflow -

 Lockable airflow adjustment knob giving you full control of a range of input pressure

Double action couplings

- Help to minimise the risk of accidental disconnection during use giving you enhanced confidence in protection
- Stainless Steel CAST Connection, offering improved corrosion resistance in tough conditions

ATEX tested

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- Assessed in accordance with the requirements of the ATEX directive and in accordance with EN13463-1 for non-electrical equipment
- Suitable for use in IIB 2GD environments under certain conditions. Please see all relevant user information for further details

Top performance

- Tested and approved to EN14594:2005
- Meets the highest level of protection, Class 4B for continuous flow supplied air respirators when fitted to a full face mask

Quick and easy maintenance

 Easy to maintain, spare parts are quick, easy and intuitive to replace





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Easy to connect

 Robust, proven bayonet connection to the facepiece and filter provides easy fitting with confidence of security

Easy movement

 Low profile, narrow-bore breathing tube for ease of movement and helps to reduce interference with your work



Typical Applications

- Spray painting⁺
- Glass fibre fabrication
- Powder coating
- Material handling

3M[™] 06972 Supplied Air System Approvals: EN14594 NPF*: 3M Half Face Masks (Class 3A/B) = 200 3M Full Face Masks (Class 4A/B) = 2000 Pressure range: 3.0 - 7.0 Bar Pressure range (with auxiliary air tool connected): 4.5-7.0 Bar Maximum Pressure: 10 Bar

3M[™] Spray Gun Adapter C-231 The 06972 includes a spray gun adapter.



3M[™] Flow Check Bag FCB-01

The 06972 includes a Flow Check Bag allowing you to conduct a simple pre-use check to ensure that the correct amount of air is being delivered – giving you peace of mind



Select your individual respirator system:

- 1. Choose the 06972 Air Delivery Unit
- 2. Choose your half face or full face mask
- 3. Choose your filters (for use in dual-mode)
- 4. Choose the appropriate air supply tube
- 5. Choose your accessories and air tools (optional)

The 06972 system is compatible with 3M[™] Accuspray[™] System (HG14) and 3M[™] PPS (Paint Preparation System)



* Nominal Protection Factor – a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

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+ If paint contains isocyanate compounds please follow

local legislation on isocyanate use

3M[™] Individual Respirator Systems

3M[™] Versaflo[™] Supplied Air Respirator Kit 69500

The 3M[™] Versaflo[™] Supplied Air Respirator Kit 69500 provides an easy and convenient solution for paint sprayers by bringing together the main components of a supplied air respirator system.

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The system provides a combined respiratory protection against;

- ▶ Particles e.g. fine dusts, aerosols, paint spray and metal fume
- Gases and vapours

The regulator ensures an individually adjustable, consistently-controlled airflow, the breathing tube has a self-adjusting length for improved fit for all wearers and the faceshield is lightweight giving comfortable respiratory, eye and face protection. Peel-off visor covers protect the visor from scratches and overspray and the Auxiliary Air Hose provides a reliable connection for a spray gun.

There are additional components required to get started with this kit, however the customer has a choice of options, so these items are not supplied in the kit:

- ▶ Rectus 25 or Rectus 95 Coupling Plugs
- Compressed air supply tube

3M[™] Aircare[™] Filtration Units are also available for removing water and oil aerosols, particles and odours from the facility-supplied compressed air.

Protection Class:

CE Approved

 EN14594 Class 2A/2B (3M provide a range of headtops and compressed air supply tubes that meet both A and B classification)



Typical Applications

- Spray painting*
- ► Glass fibre fabrication
- Powder coating
- Material handling

3M[™] Versaflo[™] Supplied Air Respirator Kit 69500 includes:

1 x	3M [™] Versaflo [™] V-500E	Regulator
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- 1 x 3M[™] Versaflo[™] M-106 Faceshield
- 1 x 3M[™] Versaflo[™] BT-30 Breathing Tube
- 1 x 3M[™] C-231 Auxiliary Air Hose
- 40 x 3M[™] M-928 Versaflo[™] Peel-Off Visor Covers
- 1 x 3M[™] M-976 Versaflo[™] Head and Neck Shoulder Cover
- 10 x 3M[™] BT-922 Breathing tube covers

The system is compatible with 3M[™] Accuspray[™] System (HG14) and 3M[™] PPS (Paint Preparation System)





3M[™] Powered Air Systems

3M[™] Jupiter[™] Powered Air Turbo

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The 3M[™] Jupiter Respirator provides respiratory protection against particulate and gaseous contaminants. It can also be used in potentially explosive atmospheres when fitted with the intrinsically safe pouch and battery (available as the Intrinsically Safe Kit).

Ergonomically designed to sit at the base of the user's back, the units low weight is carried mostly on the user's hips via the padded comfort belt. As a result, the 3M Jupiter Respirator is comfortable enough to wear for entire work shifts.



Typical Applications

- Sanding
- Grinding
- Metal working
- Surface coatings
- Finishing

3M[™] Jupiter[™] Powered Air Starter Kit includes:

	· ···	
	Jupiter Turbo	085-00-10P
	Decontamination Belt + Clip	BLT-12 + BLT-15
	Airflow Indicator Tube and Calibration Tube	021-14-12P
	A2P Filters (Pair)	453-00-25P2X6
	Pre-Filters (Pair)	461-00-02P24X5
	Self-adjusting Breathing Tube	BT-30
	8 hour Battery (NiMH)	007-00-64P
	Battery Charger	CHG-02E



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Other options:

P Filters (Pair)	450-00-25P2X12
A2BEK1P Filters (Pair)	453-09-25P2X6
Battery Pack – 4 hour	007-00-63P
10 Station Intelligent Charger	003-00-59P

Now choose your headtop:



3M[™] Versaflo[™] Faceshield M-106 Features a general purpose faceseal for dusts, spraying and chemical processing Fabric material: Polyurethane coated polyamide Classification: EN 12941 TH2 NPF*: 50



3M[™] Versaflo[™] Helmet M-306 Features a general purpose faceseal for construction, chemical applications and heavy industry Fabric material: Polyurethane coated polyamide Classification: EN 12941 TH2 NPF*: 50



3M[™] Versaflo[™] Headcover S-133 General purpose, cost effective fabric Fabric material: 2-layer polypropylene spunbond/laminated film Visor material: PETG Classification: EN 12941 TH3 NPF*: 500

* Nominal Protection Factor - a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

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Features and benefits:

Ease of use

 Electronic audible and visual alarm in case of low battery and/or low air flow

Comfort

- Modern, ergonomic design
- High comfort decontamination belt

Intrinsic safety (IS)

- Only when used with intrinsically safe kit
- Kit contains pouch and intrinsically
- safe battery
- 3M part number 085-12-00P _____

Respiratory safety

 Approved to EN 12941 class TH2 or TH3 depending on headtop

<u>3M[™] Aircare[™] Filtration Units</u>

3M[™] Aircare[™] Filtration Units

The 3M[™] Aircare[™] Filtration Units can be combined with all 3M[™] Supplied Air Respirator Systems. The three-stage filtration system supplies highest quality air to the Supplied Air Respirator System and compressed air tools by removing water and oil aerosols, particles and odours from the facility-supplied compressed air.

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The Filtration Unit is available as either a portable freestanding unit or wall-mounted unit.

Can be used for up to three users (or two users plus air tool) Differential Pressure Indicator Pressure regulator (lockable) Pressure gauge ▶ Pre-filter Semi Auto Drains (Stage 1, 2) and Manual Drain (Stage 3) ► Coalescing filter Adsorber filter with activated charcoal Adapters and connectors ▶ Input: 1/2" or 3/8" female pipe thread BSP ▶ Includes 3/8" to 1/2" BSP adapter Includes 2 adapters, 3/8" BSP to 3/8" male pipe thread BSP Output: 3/8" BSP Output pressure can be adjusted with

3M[™] Aircare[™] Filtration Unit, Freestanding ACU-04 Input: 1/2" or 3/8" female pipe thread BSP. Output: 3/8" BSP.

Wall-mounted option:

3M[™] Aircare[™] Filtration Unit, Wall Mounted ACU-03 Input: 1/2" or 3/8" female pipe thread BSP. Output: 3/8" BSP.

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Features and benefits:

- the integrated pressure regulator. The Aircare[™] Filtration Units can be used with input pressures up to 10 bar

Hearing Protection

3M[™] Hearing Protection Solutions

Why Protect your Hearing?

40 million workers are exposed to loud noise and 13 million suffer from hearing disorders despite industry regulations*.

Bodyshops can be noisy places and exposure to hazardous noise can permanently damage your hearing. Noise-induced hearing loss (NHL) isn't obvious – it's usually gradual damage that adds up over time, and it's easy to ignore using protection until it's too late.

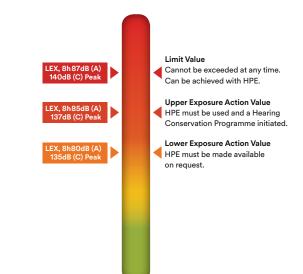
The facts

The #1 Reported Occupational Health Issue: data from the European Agency for Safety and Health at Work shows that NHL is the most commonly reported occupational medical condition in the EU.

One Third of European Employees Potentially at Risk: according to the EU OSHA one third of workers in Europe are exposed to potentially dangerous levels of noise.

The regulations

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The hazards

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

Home Scale Decibels (dBA)*

140 130 120 120 121 100 Air chisel on auto body metal 110 Air chisel on auto body metal 110 Orinder (electric) 100 Grinder, air wrench, impact 100 90 80 70 60 50 40 30

Work Scale Decibels (dBA)**

Hearing Protection Concerns

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

The Human Factor: Each person has a different shape, size and anatomy of the ear canal, so there is no one-size fits all hearing protection solution. The key to achieving optimal protection is having the best fit possible.

Employee Communication: Where there is an essential need for workers to communicate or hear warning sounds it is vital that their hearing is protected from hazardous noise levels.

provide training and appropriate hearing protection devices. Audiometric checks should also be used as a preventative measure. Above the Upper Exposure Action Value, measures to reduce exposure to noise must be implemented and individuals must be protected with the provision of PPE and have controlled entry to areas of exposure. A Hearing Conservation Programme must also be instigated.

Between the lower and upper exposure Action Values,

it is necessary to provide information on potential risks,

^{*} Source: European Agency for Safety and Health at Work

^{** 3}M Navigator[™] Sound Level Database, www.3M.com/Hearing

3M[™] Noise Indicator[™] NI-100

Accurate Noise Detection

The 3M[™] Noise Indicator NI-100 alerts users to potentially harmful noise levels, helping to identify areas where hearing protection may be required. Users simply clip the Noise indicator to a shirt or jacket; its LED light provides a clear visual indication when noise levels exceed a potentially hazardous threshold.

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The NI-100's small size and lightweight design make it ideal for workers in a variety of industries including bodyshops. In a variable noise environment the "Go/No Go" simplicity of the 3M[™] Noise Indicator[™] offers an indispensable tool for training and promoting voluntary hearing protection compliance in all areas of the work place.

Visual "go/no go"

- Green LED ("go") flashes when noise level is below 85dB(A)
- Red LED ("No Go") flashes when noise level exceeds 85dB(A)
- Easy-to-understand visual indication when hearing protection may/may not be needed

One-button operation

- Simply clip to shirt and power-on
- Easy for workers to use and understand

Easily attached -

 Clips to a wearer's shirt or can be worn as a lanyard



Rechargeable battery

- Provides up to 200 hours of use between charges
- 10-hour auto-power off helps prolong battery life for extra cost savings



Small size

 Compact, lightweight design for increased hearing protection compliance

3M[™] Sound Detector SD-200 with Optime[™] Alert System Linkage

The 3M[™] Sound Detector SD-200 is a compact, lightweight sound level meter, designed to accurately measure workplace noise levels. Green, yellow and red LEDs flash the colour that corresponds to the 3M[™] Optime[™] Alert System, making it easy to select the appropriate level of hearing protection.

Industry compliant

- Meets applicable European ANSI and IEC Class 2 standards
- Consistent performance with accurate, actionable readings

Average sound pressure level (LEQ/LAVG) -

- Integrating feature computes the average sound pressure level
- Provides stable readings where noise levels typically vary, for easier interpretation

User-friendly

- Simple four-button navigation to perform all functions
- Comes ready to take measurements; no configuration necessary



LED alerts match Optime[™] Alert System

- Tri color LEDs flash brightly when preset noise levels are reached
- Helps user understand where hearing protection may need to be worn:
- Green LED flashes when noise measurements are between 80 and 85dB
- Yellow LED flashes when noise measurements are between 85 and 105dB
- Red LED flashes when noise measurements are above 105dB

- Rechargeable

- Lithium polymer battery provides up to 50 hours of use between charges
- Reduces the cost and hassle of replaceable batteries

3M[™] Optime[™] Alert System

Our system uses a simple, logical 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.

The 3M Optime[™] Alert system has been incorporated into the 3M SD-200 sound detector that highlights the appropriate 3M hearing protection required.

*RNR = Recommended Noise Rating



Please note: At levels above 95dB(A) you will need an accurate noise assessment to correctly select the product.



RED 1 OPTIME[™] ALERT SYSTEM 87dB(A) - 98dB(A) You are above the permitted exposure level, hearing protection is compulsory.

Ideal for high frequency noise.



3M[™] E-A-R[™] Classic[™] Earplugs SNR: 28dB

3M[™] E-A-R EARcaps[™] Earplugs



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SNR: 28dB

3M[™] E-A-R[™] Express[™] Earplugs





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3M[™] Earplugs 1261/1271 SNR: 25dB



3M[™] PELTOR[™] Optime[™] I Earmuffs SNR: 27dB



3M[™] Earplugs 1310 SNR: 26dB under-the-chin (U-T-C)

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RED 2 OPTIME[™] ALERT SYSTEM 94dB(A) - 105dB(A)

You are above the permitted exposure level hearing protection is compulsory. Ideal for high and medium frequency noise.



3M[™] E-A-R[™] Ultrafit[™] Earplugs SNR: 32dB





RED 3 OPTIME[™] ALERT SYSTEM 95dB(A) - 110dB(A)

You are above the permitted exposure level, hearing protection is compulsory. Ideal for all frequencies.





3M[™] E-A-R[™] EARsoft[™] Yellow Neons[™] SNR: 36dB



3M[™] E-A-R[™] Classic[™] Soft Earplugs SNR: 36dB



3M[™] Disposable Earplugs 1100/1110 SNR: 37dB



3M[™] PELTOR[™] Earmuffs X4 SNR: 33dB

Roll Down PU Foam Disposable Earplugs

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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. 3M provides a wide range of disposable roll down PU foam earplugs to choose from and to find the best solution for your individual needs.



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) helps prevent loss of earplugs

Effective

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▶ High SNR of 37dB

Compatible with

 Designed to be compatible with other PPE

Attenuation

3M[™] Earplugs 1100/1110

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 Value (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									

Attenuation

3M[™] E-A-R[™] EARsoft[™] Yellow Neons[™] Earplugs

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	23.7	30.8	36.1	39.2	39.5	35.8	42.1	46.1	
Standard Deviation (dB)	6.7	6.5	6.7	4.7	3.9	4.9	3.1	3.3	
Assumed Protection Value (dB)	17.00	24.3	29.4	34.5	35.6	30.9	39.0	39.0	
SNR = 36dB. H = 34dB. M = 34dB. L = 31dB									

3M[™] Disposable Earplugs 1100/1110 Available corded, uncorded and with dispenser SNR: 37dB



Other 3M[™] Disposable Earplugs

3M[™] E-A-R[™] EARsoft[™] Yellow Neons[™] Earplugs The E-A-R[™] standard PU earplugs. Available corded (Yellow Neons), uncorded and with dispenser SNR: 36dB





3M[™] Dispenser 1100B and 1120B Now 3M One-Touch dispenser also available to dispense 3M[™] Earplugs 1100 and 1120



3M[™] E-A-R[™] One-Touch[™] Dispenser



3M[™] E-A-R[™] Classic[™] Disposable Earplugs

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More than 40 years ago this simple hearing protector, the world's first foam earplug, revolutionised hearing protection in the workplace and has remained to this day one of the most widely used earplugs in the world. Since its introduction to the market no other earplug has been studied and assessed in the field more comprehensively than the E-A-R Classic. Discover for yourself what makes the E-A-R Classic earplug so different and why it remains one of the most popular choices of earplug in the world today for attenuation, comfort and ease-of-fit.





Features and benefits:

Attenuation

- Features a proprietary slow recovery vinyl foam, engineered to protect against noise and vibration
- Expands to the shape of the wearer's ear canal, thereby providing an effective acoustic seal
- ► The unique 3M[™] E-A-RFit[™] Validation System allows users to obtain their own personal attenuation rating to help ensure best fit and protection

Comfort

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- Cylindrical shape: flat and cylindrical to provide an effective seal even with jaw movement
- Sweat and humidity resistant, enables easier fitting and helps prevent moisture build up in the ear canal
- Textured surface, provides greater friction to prevent slippage and maintain an effective seal over a prolonged wear time

Ease-of-fit

- Firm foam properties prevent the earplug from folding or collapsing when inserted into the ear canal
- Quick and easy to roll down with slow recovery foam for a good custom fit

Attenuation

3M[™] E-A-R[™] Classic[™] Earplugs (Uncorded version)

Frequency (Hz)	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 Value (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									

Attenuation

3M[™] E-A-R[™] Classic[™] Soft Earplugs (Uncorded version)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	28.2	30.6	32.8	35.9	36.0	38.5	43.8	43.1	
Standard Deviation (dB)	6.7	6.4	5.4	4.2	3.7	3.2	3.8	3.8	
Assumed Protection Value (dB)	21.5	24.2	27.4	31.7	32.3	35.3	40.0	39.3	
SNR = 36dB. H = 36dB. M = 33dB. L = 29dB									

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3M[™] E-A-R[™] Classic[™] Earplugs Available corded, uncorded and with dispenser SNR: 28dB

Other 3M[™] Disposable Earplugs

3M[™] E-A-R[™] Classic[™] Soft Earplugs Softer Classic earplugs for increased comfort Available corded, uncorded and with dispenser SNR: 36dB



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3M[™] E-A-R[™] One-Touch[™] Dispenser



Features and benefits:

Unique pod design allowing the foam

The plug slides gently into the ear and

 Patented E-A-R foam tip shaped and sized to mold comfortably fitting virtually every size ear canal

The insertion stem eliminates the need to touch the tip: no need to clean your hands

Designed to be compatible with other PPE

Available corded or uncordedNo roll down required

Comfortable

Convenient

Compatible with

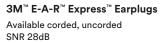
to compress easily

expands slowly

Push-to-Fit Earplugs

The 3M[™] E-A-R[™] Express[™] Push-to-Fit 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. Because you don't have to touch the foam during fitting, it is one of the most hygienic types of earplug available.

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Attenuation

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3M[™] E-A-R[™] Express Earplugs

Frequency (Hz)	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 Value (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									

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Reusable Earplugs

Reusable plugs 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 proprietary, pre-moulded, triple flanged earplugs. Available in two different styles.



Features and benefits:

Comfortable

- Unique and proprietary 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

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- 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 to various use: traceable, high and low attenuation versions

Compatible with

 Designed to be compatible with all types of PPE

Attenuation

3M[™] E-A-R[™] Ultrafit[™] Earplugs

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 Value (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

Attenuation

3M[™] Earplugs 1261/1271

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	26.6	27.7	28.4	29.5	29.6	35.6	35.6	38.9	
Standard Deviation (dB)	9.4	9.9	10.9	9.6	8.2	6.8	9.8	6.7	
Assumed Protection Value (dB)	17.2	17.8	17.5	19.9	21.4	28.8	25.8	32.2	
SNR = 25dB. H = 27dB. M = 22dB. L = 20dB									

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3M[™] E-A-R[™] Ultrafit[™] Earplugs SNR: 32dB

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3M[™] Earplugs 1261/1271 The pre-moulded earplug with convenient storage case Available corded and uncorded SNR: 25dB





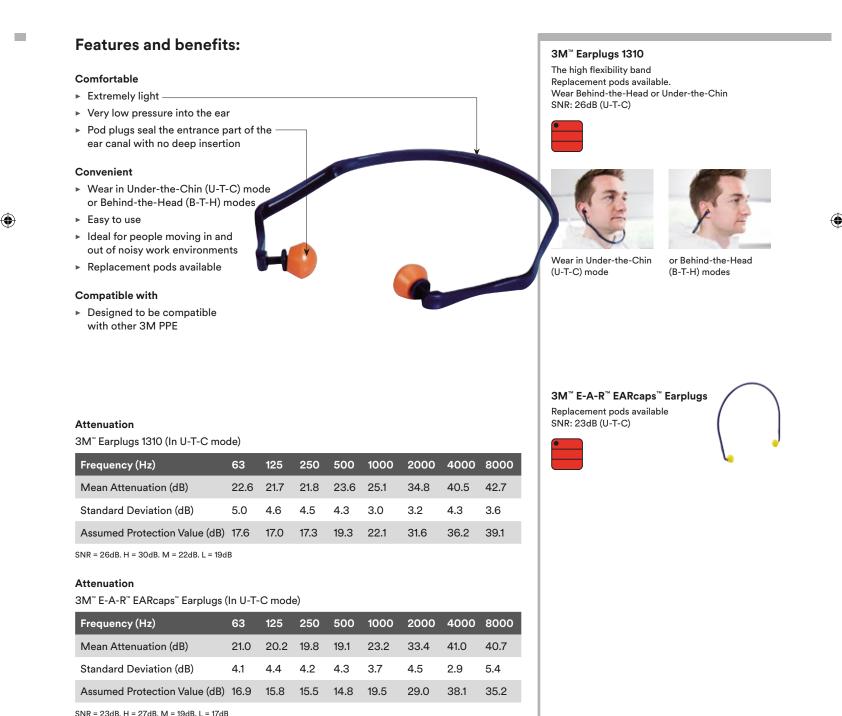
3M[™] Hearing Protection

Banded Earplugs

Banded hearing protectors are easy to use, convenient and extremely comfortable. They are quick to insert and remove and can be stored around the neck when not required, making them ideal for intermittent use. Banded hearing protectors offer simplicity to help improve the choice of hearing protection products that best suits the work place environment. Most models are available with replacement pods making them a more cost-effective option.



Banded Earplugs can be worn in a variety of modes: Behind-the-Head (B-T-H) Under-the-Chin (U-T-C)



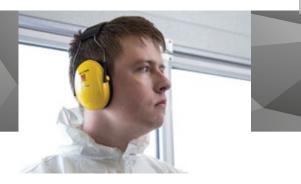
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3M[™] Hearing Protection

3M[™] PELTOR[™] Optime[™] Earmuffs | & ||

The 3M[™] PELTOR[™] Optime[™] Earmuffs have been developed for demanding noisy environments and are effective in reducing even extremely low frequency sound. The sealing rings are filled with a unique combination of liquid and foam. The result is an optimum seal with low contact pressure, which provides agreeable comfort even during long periods of use.

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PELTOR

Features and benefits:

Comfortable

- Generous space inside the cup to help the ears breathe thus improving comfort
- ▶ Soft and wide sealing rings filled with a unique combination of foam and liquid to offer optimum sealing and low pressure
- ▶ The specially designed sealing rings feature a soft cushion cover

Effective

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- High attenuation despite lightness and low profile design: 31dB SNR
- Unique band design, stainless steel wire for constant pressure over long periods of use

Versatile

Available in several versions including: Headband, foldable, neckband and helmet mounted versions. All versions are available in high visibility colours

Attenuation

3M[™] PELTOR[™] Optime[™] II Earmuffs

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	14.6	20.2	32.5	39.3	36.4	34.4	40.2
Standard Deviation (dB)	1.6	2.5	2.3	2.1	2.4	4.0	2.3
Assumed Protection Value (dB)	13.0	17.7	30.2	37.2	34.0	30.4	37.9
SNR = 31dB H = 34dB M = 29dB L = 20dB							

SNR = 31dB. H = 34dB. M = 29dB. L = 20dB

Attenuation

3M[™] PELTOR[™] Optime[™] I – Earmuffs

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	11.4	18.7	27.5	32.9	33.6	36.6	35.9
Standard Deviation (dB)	4.1	3.6	2.5	2.7	3.4	2.7	3.7
Assumed Protection Value (dB)	7.3	15.1	25.0	30.1	30.2	33.9	32.2
SNR = 27dB. H = 32dB. M = 25dB. L = 15dB							

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3M[™] PELTOR[™] Optime[™] II Earmuffs Headband SNR: 31dB

Accessories Hygiene kits are available for each earmuff version

3M[™] PELTOR[™] Optime[™] I **Earmuffs Headband** Features:

Low profile, light-weight design (180g) helps improve compatibility with other safety equipment Moderate attenuation: SNR: 27dB



3M[™] Hearing Protection

3M[™] PELTOR[™] Earmuffs X1A & X4A

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The 3M[™] PELTOR[™] Earmuffs X1A & X4A have been developed on the basis of design, comfort and attenuation techniques. This range sets a new standard for over-the-ear protection. Historically higher attenuating earmuffs meant larger and bulky cups, but no longer. The 3M[™] PELTOR[™] Earmuffs X4A can attenuate by as much as 33dB whilst maintaining a sleek, low profile aesthetically pleasing design.

PELTOR

Features and benefits:

Comfort

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- Easy to adjust headband
- Electrically insulated (dielectric) wire headband with constant pressure over long wearing periods
- Twin headband design helps reduce heat build-up and provides a good fit and balance
- Earcups tilt for optimum comfort and efficiency

Protection

- New ear cushion foam technology for an effective acoustic seal and reliable protection
- New smart sealing ring
- Streamlined cups without compromising attenuation
- Compatible with a range of 3M eyewear and respirators (validated by internal testing)

Design

- Lightweight dual mould cups with maximum space inside to help minimise heat and moisture build up
- Integrated design for more robustness
- Colour-coded for ease of selection
- ► Easy to clean

Attenuation

3M[™] PELTOR[™] X4A Earmuffs

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	19.6	17.8	22.1	30.6	39.5	37.3	43.8	42.1
Standard Deviation (dB)	4.1	2.3	2.5	1.8	2.9	4.1	2.8	4.0
Assumed Protection Value (dB)	15.5	15.5	19.6	28.8	36.6	33.2	41.1	38.2
SNR = 33dB. H = 36dB. M = 30dB. L = 22dB								

Attenuation

3M[™] PELTOR[™] Earmuffs X1A

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	15.6	11.9	15.4	24.5	34.3	32.8	37.4	37.4
Standard Deviation (dB)	3.6	2.0	2.6	2.6	2.3	3.3	2.5	3.8
Assumed Protection Value (dB)	12.0	9.9	12.8	22.0	31.9	29.5	34.9	33.5
SNR = 27dB. H = 32dB. M = 24dB. L = 16d	SNR = 27dB H = 32dB M = 24dB I = 16dB							

3M[™] PELTOR[™] X4A Earmuffs SNR: 33dB

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3M[™] PELTOR[™] Earmuffs X1A SNR: 27dB

Available as headband or helmet mounted version. Colour coded green, indicating first level of attenuation within this range

Engineered around protection, comfort and design, making it highly versatile



Communications Solutions

3M[™] PELTOR[™] Communication Solutions

First-class communication and hearing protection!

There was a time when wearing hearing protectors meant being isolated and out of contact. Those days are over. Today, 3M[™] PELTOR[™] offers first-class communication solutions that not only make your working day safer and more efficient, but also much nicer! Close up or far away the 3M[™] PELTOR[™] Communication Solutions for noisy environments make it possible for users of hearing protectors to communicate very effectively - with their immediate environment and with people further away.

The importance of wearing hearing protection 100% of time exposed



100% usage Gives the expected protection



99% usage Just five minutes of carelessness per day significantly reduces the effect of the hearing protector



90% usage Virtually no protection

Safety

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To be effective, a hearing protector should be used 100% of the time in noisy environments. Even taking it off for a short time dramatically reduces its effectiveness and greatly increases the risk of hearing damage. The 3M[™] PELTOR[™] Communication Solutions encourage longer use because the wearer feels less isolated and can communicate with others more easily.

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Function symbols

To help you to understand the functionality of the products you will find below symbols on each product page.



for ambient listening



or communication radio









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Hearing protection with level-dependent function features Bluetooth®

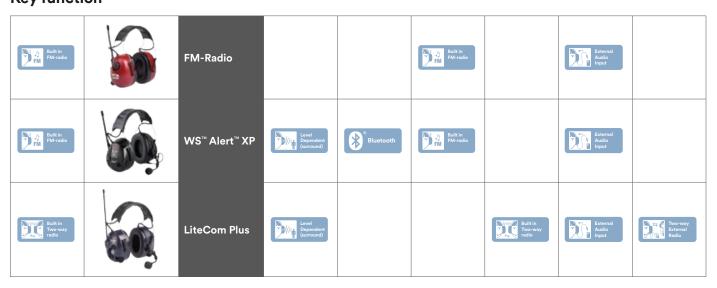
Key function



Hearing protection with built in two-way radio

Hearing protection with Hearing protection with built-in FM radio receiver external audio input

Hearing protection fo communication with external two-way radio



3M[™] PELTOR[™] FM-radio

3M[™] PELTOR[™] FM-radio can help improving safety and motivation for users in noisy conditions. If you want to protect your hearing and listen to the radio without outside interruption this is a good hearing protector for you.



Features and benefits:

- Protects your hearing (SNR: 32dB)
- ▶ Built in FM-radio receiver
- A separate audio input enables connection to external equipment such as MP3-player or two-way radio listening
- Battery life time approx. 140 hours
- Also available as helmet attachment

Connects with

MP3-player

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3M[™] PELTOR[™] FM-radio HRXS7A-01 Headband SNR: 32dB

Other 3M[™] PELTOR[™] FM-radio options

3M[™] PELTOR[™] FM-radio HRXS7P3E-01 Helmet Attachment SNR: 29dB



Battery Type: 2X AA 1.2–1.5V

Operating time: Approximately 140 hours of battery lifetime with included alkaline batteries ۲

Net Weight (incl. batteries):

: 340 g (headband) 370 g (helmet att.)

Operating temperature:

-20°C to +55°C (battery dependent)

Wired Connectivity:

3,5 mm AUX input jack (limited to 82dB(A))

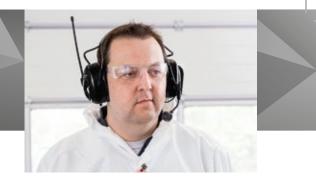
3M[™] PELTOR Accessories

HY81 Hygiene kit HY100 Disposable hygiene pads

Attenuation HRXS7A-01 Headband					か FM FM FM-radio		External Audio Input
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.6	26.2	34.9	37.7	33.3	35.7	36.8
Standard Deviation (dB)	2.9	1.8	2.5	2.6	3.4	2.1	3.3
Assumed Protection Value (dB)	14.7	24.4	32.3	35.0	29.9	33.6	33.5
SNR = 32dB. H = 32dB. M = 31dB. L = 23dB							

3M[™] PELTOR[™] WS[™] Alert[™] XP

With the 3M[™] PELTOR[™] WS[™] Alert[™] XP Level Dependent FM-Radio Bluetooth[®] Headset, we introduce a new era in the world of hearing protection. With a built-in FM-radio receiver, Bluetooth[®] and a level dependent technology for situational awareness, 3M PELTOR WS Alert XP enables users to have wireless telephone conversations or listen to their favorite music even in noisy environments.



PELTOR

Features and benefits:

- Protects your hearing (SNR: 29dB)
- ▶ Built in FM-radio receiver
- Wireless calls and music via Bluetooth[®]
- Patented speaker system for full-bodied dynamic sound
- Level dependent technology for situational awareness enables you to communicate with your colleagues while maintaining your ability to hear and react on e.g. warnings signals
- External jack (3,5 mm) enables you to connect to external devices via cable
- Fast tuning

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- Memory/preset function
- Voice guided menu system
- Also available as helmet attachment
- Possibility to use rechargeable batteries and charge them direct in the headset

Connects with

- DECT- and mobile phones
- Two-way radio



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3M[™] PELTOR[™] WS[™] Alert[™] XP MRX21AWS5 Headband SNR: 29dB

Other 3M[™] PELTOR[™] WS[™] Alert[™] XP options

3M[™] PELTOR[™] WS[™] Alert[™] XP MRX21P3EWS5 Helmet attachment SNR: 29dB



Battery Type: 2X AA 1.2–1.5 V

Operating time: Approximately 23 hours of battery lifetime with included alkaline batteries (all

functions active)
Net Weight 430 g (headband

Net Weight 430 g (headband) (incl. batteries): 455 g (helmet att.)

> -20°C to +55°C (battery dependent)

Wired Connectivity:

temperature:

Operating

3,5 mm AUX input jack (limited to 82dB(A))

3M[™] PELTOR Accessories

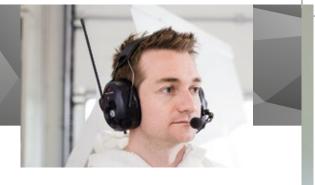
HY81	Hygiene kit
FL6CE/1	Connection cables for external
LR6NM	audio input Rechargeable AA batteries
FR08	Power supply
FR09	Battery charger

Attenuation MRX21AWS5 Headband		Level Dependent (surround)	Blueto	poth	Built in FM FM)))	External Audio Input
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	15.5	19.2	28.0	29.6	35.1	34.4	37.1
Standard Deviation (dB)	2.3	1.5	2.1	2.4	2.4	4.0	3.0
Assumed Protection Value (dB)	13.2	17.7	25.9	27.2	32.7	34.4	34.1

SNR = 29dB. H = 33dB. M = 26dB. L = 20dB

3M[™] PELTOR[™] LiteCom Plus

3M[™] PELTOR[™] LiteCom Plus Electronic Level Dependent Headset with Built-in Two-way Communication Radio and External Audio Input is based on a robust basic design with a number of added features. This is a headset that is designed for demanding use on a daily basis. The built-in two-way radio has 8 or 69 channels with 121 subchannels, and has a range of up to 3km. It lets you talk hands-free and work safely regardless of harmful noise levels. The level dependent function for ambient listening ensures you are not isolated from your immediate surroundings, but can still hear alarms, unexpected sounds and calls for help.



PELTOR

Features and benefits:

- Protects your hearing (SNR: 34dB)
- Built in two-way radio communication
- 8 channels in the PMR 446 MHz band or 69 channels in the LPD 433 MHz band
- ▶ 121 subchannels

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- Range of up to 3km depending on conditions
- Level dependent function for ambient listening
- Rechargeable lithium-ion battery with 20 hours operating time
- A separate audio input enables connection to external equipment such as mobile phone, two-way radio
- Voice operated transmission (VOX)
- Auto power off function
- Battery status indication
- Voice guided menu system
- Also available as neckband or helmet attachment

Connects with

- DECT- and mobile phones
- ► Two-way radio



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3M[™] PELTOR[™] LiteCom Plus MT7H7A4410-EU Headband SNR: 34dB

Other 3M[™] PELTOR[™] LiteCom Plus options (in blue)

3M[™] PELTOR[™] LiteCom Plus MT7H7B4410-EU Neckband SNR: 33dB

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3M[™] PELTOR[™] LiteCom Plus MT7H7P3E4410-EU Helmet attachment SNR: 33dB



Frequency range:	446 MHz (PMR), 433 MHz (LPD)				
Battery Type:	3,7 V Lithium ACK081				
Operating time:	Approximately 20 hours				
Net Weight (incl. batteries):	464g (headband) 491g (helmet att.) 453g (neckband)				
Operating temperature:	-20°C to +55°C (battery dependent)				
Wired Connectivity:	3,5 mm AUX input jack (limited to 82dB(A))				
3M [™] PELTOR Accessories					

HY79Hygiene kitMT7N-02Dynamic microphone (standard)ACK081BatteryAL2AICharging cableFR08Power supplyFL5602External PTT

Attenuation MT7H7A4410-EU Headband	· · · · · · · · · · · · · · · · · · ·	level Dependent surround)	Built Two- radio	in way	External Audio Input		Two-way External Radio
Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	20.2	26.7	35.0	37.4	35.7	40.4	38.9
Standard Deviation (dB)	3.1	3.1	2.6	2.1	3.0	2.9	2.1
Assumed Protection Value (dB)	17.1	23.6	32.4	35.3	32.7	37.5	36.8
SNR = 34dB. H = 35dB. M = 32dB. L = 25dB							

44 Safety Product Catalogue

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Eye & Face Protection

3M

Why Protect your Eyes?

Eye injuries and face injuries can occur in the bodyshop when you're not wearing any eye and face protection or when you're wearing the wrong protection for the job. The selection guide below outlines the different options available to help you select the right product.

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3M Product Selection Guide

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. It is ultimately the responsibility of the employer to select the most appropriate PPE and level of protection required based on a full risk assessment. Details regarding performance and limitations are set out on the product packaging and data sheets.

Products to c	consider		Specta	cles				Goggles					Face- shields			ion
			3M™ SecureFit™ Spectacles 200 Series	3M [™] SecureFit [™] Spectacles 400 Series	3M [™] Comfort Line Spectacles 2840 Series	3M™ Solus™ 1000 Series	3M [™] Overspectacles 2800 Series	3M [™] Comfort Line Safety Goggles 2890 Series	3M [™] Comfort Line Safety Goggles 2890S	3M [™] Comfort Line Safety Goggles 2890SA	3M [™] Comfort Line Safety Goggles 2890A	3M [™] Comfort Line Safety Goggles 2895S	3M™ Headgear G500	3M [™] Speedglas [™] Welding Helmet 10V	3M [™] Speedglas [™] Welding Helmet 100 Series	3M [™] Speedglas [™] Welding Helmet 9100V
Application*	Typical hazards	Typical protection types required*	\sim	Ç	<u>نې</u>	0	\$	5	5	5	5	5	1	•	٩	5
Bonding	Solvent containing adhesives	Chemical splashes and/or vapours						~	✓ when vapours are present	when vapours are present	~		~			
Adhesives, coatings & sealers	Poly- urethane coating	Chemical splashes and/or vapours						•	✓ when vapours are present	when vapours are present	~		~			
Degreasing	Solvent vapours	Chemical vapours							~	~						
Grinding	Dusts and other fine particles	Dust and flying particles						~	~				•			
Hand sanding	Dusts and other fine particles	Dust	~	~	~	~	~	~								
Machine sanding	Dusts and other fine particles	Dust and flying particles	~	~	~	✓ available with foam insert	~	•	*				~			
Mixing paint (where there is sufficient ventilation)**	Solvent- based paint	Chemical splashes and/or vapours						*	✓ when vapours are present	when vapours are present	~		*			
Painting & spraying**	Solvent- based paint	Chemical splashes and/or vapours						*	✓ when vapours are present	when vapours are present	~		~			
Polishing & compound-ing	Dusts and other fine particles	Dust	~	~	~	~	~									
Welding	Welding arc and fume	UV/IR light Dust					✓ with 2805					~	✓ with 5E-11 visor	~	~	~

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Key

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✓ May be suitable for use

3M[™] Eye & Face Protection

3M[™] Headgear G500

The 3M[™] Headgear G500 is a versatile and comfortable solution for use as a standalone face protection system or for combined face and hearing protection. Special design features make it easy to combine the G500 with other 3M[™] Safety Products such as face shields, passive earmuffs or communication headsets and integrated eyewear. This high quality product provides protection against impacts from the front and side, while special attention at the design stage has ensured maximum visibility and wearer comfort.

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Typical Applications

- Machine sanding
- Grinding
- Chemical splash

Features and benefits:

Front cover

 Design incorporates a cable holder for PELTOR Communication products

Face shield

- A range of visors and face shields available
- Offers a wide field of view

Integrated eyewear

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- To increase eye protection G500 headgear can incorporate integrated eyewear
- Available in clear and yellow
- 3M V6 Integrated Eyewear reduces interference with hearing protection

Ratchet harness

- Ergonomically designed neck support gives excellent comfort for long periods of time
- 3 height adjustment positions
- ▶ 8 head size adjustments

Robustness

- Reduction of flexible materials minimises stress and deformation caused by rough handling
- Ensures consistent attenuation when combined with hearing protection or communication headsets

Hearing protection -

- G500 can be used with or without earmuffs
- 30mm slot fits the PELTOR
 P3E-earmuff attachment
- ▶ Compatible with 3M Optime[™], 3M PELTOR[™] X-Series and 3M Communications Solutions

3M[™] Industrial Combination G500 3M[™] Headgear G500 Clear PC Face Shield 5F-11 3M[™] PELTOR[™] Optime[™] I Earmuffs

3M[™] Integrated Eyewear

Designed to be used with 3M[™] Headgear G500. The design allows the glasses to slide easily between the head cradle and carrier. Available in clear & yellow



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3M[™] Face Shields The wide range of visors al

The wide range of visors allows for many industrial combinations

Polycarbonate Face Shields 5F-11/5E-11 Available in clear and Shade 5 EN166:2001 Approved 5F-11: 2C-1.2 3M 1:B:3:8 5E-11: 5 3M 1:B:3



3M[™] Eye Protection

3M[™] Overspectacles 2800 Series

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The 3M 2800 Safety Overspectacles are designed to fit over most users' prescription spectacles with minimal interference. They offer an excellent coverage and field of vision, combined with a high level of protection against impacts.

Typical Applications

- Welding, assistant (2805)
- Dry sanding
- Gas cutting (2805)
- Hand sanding
- Adhesives handling
- Polishing

Features and benefits:

Style

 Versatile design allows use with wide variety of prescription spectacles

Premium protection

- Optical Class 1 for high optical clarity to allow prolonged, comfortable wear
- Polycarbonate lens offers good impact resistance with Anti-Scratch coating for improved durability

Comfort

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- Adjustable length temples (4 positions) for optimal comfort and fit
- Inclinable lens for easy adjustment and maximum comfort
- Soft low profile temples for comfort and minimum interaction with prescription spectacles

3M[™] Overspectacles 2805 Lens colour: Clear Lens material: polycarbonate EN 166:2001 EN 170:2002

3M[™] Overspectacles 2805 Lens colour: Welding Shade 5 Lens material: polycarbonate EN 166:2001 EN 170:2002



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3M[™] Overspectacles 2802

Lens colour: amber Lens material: polycarbonate EN 166:2001 EN 170:2002



3M[™] Eye Protection

3M[™] SecureFit[™] Spectacles 200 Series

Recognising that lack of comfort and fit are the biggest barriers to protective eyewear use, 3M has introduced a revolutionary range of safety eyewear which self-adjusts to individual head sizes, delivering noticeably higher levels of personal comfort and security of fit. Weighing just 18g, the lightweight eyewear has no need for adjustable parts. It simply adjusts to fit a wide array of head sizes, reducing the need to stock multiple frame sizes. The 3M[™] SecureFit[™] Protective Eyewear features patent pending 3M[™] Pressure Diffusion Temple Technology which draws on years of scientific anthropometric research by 3M. This game-changing technology allows the frames to naturally adjust to the wearer's profile, providing a snug, stylish and secure fit across a diverse workforce, without compromising safety.

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Features and benefits:

Style

- Sleek, streamline design
- The robust temple design gives great performance and make adjustable features redundant

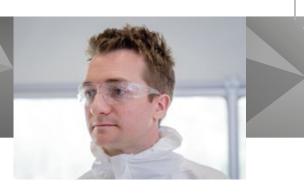
Premium protection

- Provides complete impact protection for the orbital region of the eye
- Integrated side-shield provides additional protection for surrounding tissues

Comfort

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- ► Features 3M[™] Pressure Diffusion Temple Technology
- Constant temple force even with different head sizes
- Reduced frame slippage during workplace head movements
- Self adjusting temples for a secure fit
- Weighs only 18g



Typical Applications

- Hand sanding
- Dry sanding
- Adhesives handling
- Polishing

3M[™] SecureFit[™] Classic Line Spectacles SF201AS-EU

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Lens colour: clear Lens material: polycarbonate Optical Class 1 2C-1.2 lens provides UV protection and good colour recognition EN 166:2001 EN 170:2002

3M[™] SecureFit[™] Classic Line Spectacles SF203AF-EU

Lens colour: amber Lens material: polycarbonate Optical Class 1 2C-1.2 lens provides UV protection and good colour recognition and contrast enhancement EN 166:2001 EN 170:2002

3M[™] SecureFit[™] Classic Line Spectacles SF202AF-EU

Lens colour: grey Lens material: polycarbonate Optical Class 1 5C-3.1 lens provides UV protection and glare reduction EN 166:2001 EN 172:1994



3M[™] Eye Protection

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3M[™] SecureFit[™] Spectacles 400 Series

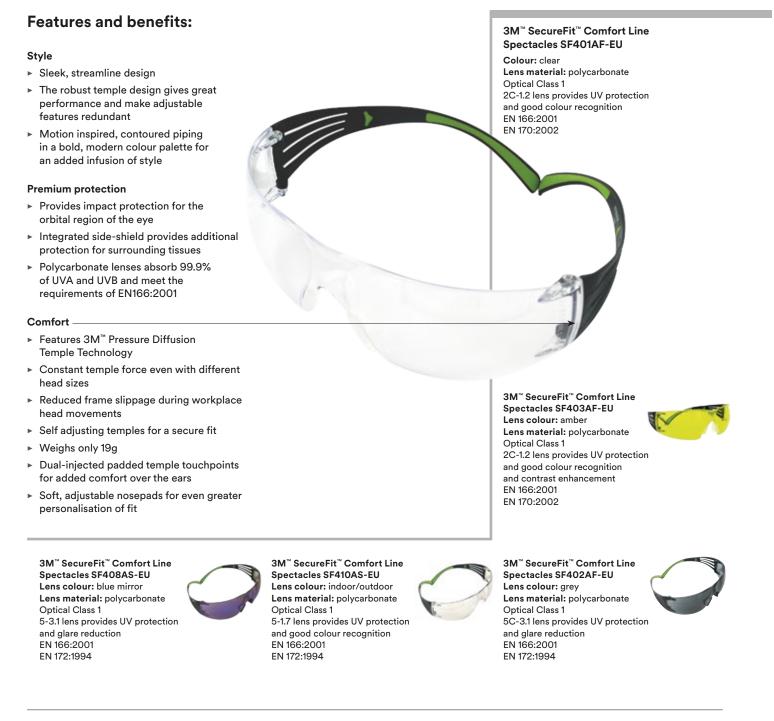
Sourcing eyewear to securely fit a diverse workforce can be a challenge. 3M Pressure Diffusion Temple Technology enhances fit as temples naturally adjusts to individual head sizes. This can result in enhanced comfort due to less pressure over the ears without compromising security of fit.

This lightweight eyewear weighs just 19g and offers improved features for comfort and style, combatting two of the largest barriers to compliance.

Typical Applications

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- Hand sanding
- Dry sanding
- Adhesives handling
- Polishing



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Features and benefits:

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3M[™] Comfort Line Spectacles 2840 Series

Protection, comfort and adjustability. With a unique style, the 2840 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[™] Spectacles 2840 also feature an integrated browguard for increased protection incorporating a strong polycarbonate lens with anti-scratch and anti-fog coating (except $3M^{\text{\tiny M}}$ Spectacles 2844), they are available in 6 lens options.



Typical Applications

3M[™] Comfort Line Spectacles 2840

- Welding, assistant (2845)
- Gas cutting (2845)
- Hand sanding

Lens colour: clear

- Adhesives handling
- Polishing
- Surface inspection (2846)
- Dry sanding
- Style Lens material: polycarbonate FN 166:2001 Stylish and modern design, eye protection EN 170:2002 is more likely to be worn if it looks good Premium protection Optical Class 1 to allow prolonged, comfortable wear Integrated browguard for increased M 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) 3M[™] Comfort Line Spectacles 2842 Lens colour: amber Lens material: polycarbonate EN 166-2001 EN 170:2002 3M[™] Comfort Line 3M[™] Comfort Line 3M[™] Comfort Line Spectacles 2846 **Spectacles 2845** Spectacles 2844 Lens colour: IR shade 5 Lens colour: indoor outdoor mirror Lens colour: red-orange Lens material: polycarbonate Lens material: polycarbonate Lens material: polycarbonate EN 166:2001 EN 166-2001 EN 166-2001 EN 170:2002 FN 169:2002 FN 172:1994

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Automotive Aftermarket Division 51



3M[™] Solus[™] 1000 Series with 3M[™] Scotchgard[™] Anti-Fog Coating

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A fogged lens can be frustrating and dangerous. Removing eyewear to wipe away fog can expose eyes to potentially dangerous workplace impact hazards and debris. The Scotchgard[™] Anti-Fog Coating resists fogging longer than traditional anti-fog coatings, even after washing multiple times. Try the Solus[™] 1000 Series with Scotchgard[™] Anti-Fog Coating and see clearly, longer.



- Hand sanding
- Dry sanding
- Adhesives handling
- Polishing

Features and benefits:

Style

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- Slim frame
- Colour accented soft temple components for a stylish and modern look

Premium protection

Strong PC lenses

3M[™] Scotchgard[™] Anti-Fog Coating

- Provides scratch resistance and durability
- Provides superior anti-fog and anti-scratch properties, complying with K & N marking requirements of EN166
- Can be disinfected with diluted bleach soaking or alcohol wipes without losing its anti-fog performance

Comfort

- Lightweight
- Soft cushioning on nose bridge
- Inner padding on temples for increased comfort and stability when worn

3M[™] Solus[™] 1201 Lens colour: clear

Also available in: 3M[™] Solus[™] 1202 grey 3M[™] Solus[™] 1203 amber Lens material: polycarbonate Frame colour: green/black EN 166:2001 EN 170:2002 EN 172:1994

3M[™] Solus[™] 1101 Lens colour: clear Also available in: 3M[™] Solus[™] 1102 grey 3M[™] Solus[™] 1103 amber Lens material: polycarbonate Frame colour: blue/black

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3M[™] Solus[™] 1101 Kit



3M[™] Solus[™] 1201 Kit



Kits available with clear lens in each frame type. These include a headband and foam insert.

3M[™] Comfort Line Safety Goggles 2890 Series

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The 3M[™] Comfort Line Safety Goggles 2890 Series 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.



Typical Applications

- Welding, assistant (2895)
- ► Gas cutting (2895)
- Machine sanding
- Grinding (2890 & 2890S)
- Adhesives handling
- Polishing
- Paint preparation (2890SA & 2890S)
- Paint spraying (2890SA & 2890S)

Features and benefits:

Style

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

Premium protection

- ► Sealed design (3M[™] 2890S & 3M[™] 2890SA) helps provide protection against liquids, dust, gases and vapours
- Indirect ventilation design (3M[™] 2890 & 3M[™] 2890A) for improved air circulation, comfort and reduced fogging in hot/humid conditions
- Acetate lens option (2890A & 2890SA) for excellent chemical resistance and protection against high speed particles at low energy EN166 1 FT
- Polycarbonate lens option (2890 & 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 & 2890S only)
- 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 ______
- Replacement lens options for 2890/2890S 2890A/2890SA
- ▶ Suitable for use with 3M[™] Respirators

3M[™] Goggles 2890 Lens colour: clear Lens material: polycabonate EN 166:2001

3M[™] Goggles 2890A Acetate lens

3M[™] Goggles 2890S Sealed polycarbonate lens

3M[™] Goggles 2890SA Sealed acetate lens

3M[™] Safety Goggles 2895S Sealed polycarbonate lens Features shade 5 lens for welding and cutting



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Welding Protection

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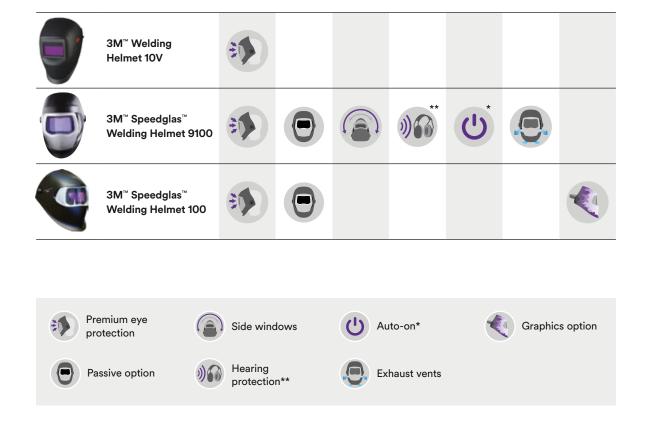
Guided by welders, trusted by welders

The 3M[™] Speedglas[™] brand is the world's leading product line of welding safety and is a vital part of 3M's diverse range of personal protective equipment. More than 35 years ago, we went to the shipyards of Sweden to observe welders. They blindly struck arcs as they continually nodded their helmets down. They got accidently flashed by other welders – or even themselves. We asked, "What if... welders could always see, even with their helmets down?"

Since then, we've been systematically addressing every welding ergonomic challenge you face.

Our Welding Helmets – sorted by features

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* Only in combination with 3M[™] Speedglas[™] Welding Filter 9100XXi

** 3M[™] PELTOR[™] Hearing Protection available as accessories, see Speedglas product catalogue.

3M[™] Welding Protection

3M[™] Welding Helmet 10V

Our entry level, high-performing auto-darkening welding helmet.

Features and benefits:

Robust, industrial design

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- Lightweight only 390 gram (including auto-darkening welding filter)
- Can be worn with safety spectacles and/or disposable respirators
- B 3M[™] Welding Helmet 10V has been shown to meet the Basic Safety Requirements under article 10 of the European Directive 89/686/EEC and is thus CE marked. The product complies with the harmonised European Standards EN 175, EN 166, and EN 379



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3M[™] Welding Helmet 10V Consumables

Part Number	Description	Quantity
126000	Outer Protection Plate Standard for 10V Helmet	1 per pack
428000	Inner Cover Plate for 10V Helmet	5 per pack
167410	Sweat Band fleecy Cotton for 10V Helmet	1 per pack





3M[™] Welding Helmet 10V Part Number: 10 11 01

3M[™] Welding Helmet 10V

Technical Data	
Rated for	MIG, Stick, TIG (> 20 A)
Switching time, light-dark	0.1 ms @ 73°F (23°C)
Switching time, dark-light	40–250 ms
UV/IR protection	Shade 12 (permanent)
Viewing area	3.66 × 1.73 in (93 × 44mm)
Light state	Shade 3
Dark state	Shade 10–12 (variable)
Battery lifetime	2500 hours

3M[™] Speedglas[™] Welding Helmet 100 Series

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The easy-to-use 3M[™] Speedglas[™] Welding Helmet Series 100 allows you to take advantage of excellent optical quality and reliable light-to-dark switching at a highly affordable price.





Features and benefits:

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- B 3M[™] Speedglas[™] Welding filter 100V: five adjustable dark shades 8-12 and a light shade of 3. Three sensitivity settings
- For grinding, lock-in shade 3 light state.
 Only applicable for the welding filter 100V
- High impact rating according to the requirements of the European Standard EN 175:B
- Appropriate for most arc welding processes, including MMA and MIG/MAG. The welding filter 100V is also appropriate for high amp TIG welding
- ► Compatible with most 3M[™] Disposable Particulate Respirators

3M[™] Speedglas[™] Welding Helmet 100. Black with 100V filter Part Number: 75 1120 High-end features, low-end price

Make a visual impact

In addition to the black model, you can choose from several highly expressive graphic helmet designs.



Speedglas welding helmet 100 Skull Jewels with 100V filter Part Number: 75 19 20 ۲



Speedglas welding helmet 100 Blaze, with 100V filter Part Number: 75 12 20



Speedglas welding helmet 100 Razor Dragon with 100V filter Part Number: 75 24 20

3M[™] Speedglas[™] Welding Helmet 100 Series Consumables

Part Number	Description	Quantity
776000	Outer Protection Plate Standard for 100 Helmet	10 per pack
428000	Inner Cover Plate for 100 Helmet	5 per pack
168012	Sweat Band fleecy Cotton for 100 Helmet	2 per pack



3M[™] Speedglas[™] Welding Helmet 9100 with filter 9100V

Protecting your eyes and face from radiation, heat and sparks – while providing a precise view of your work – makes your 3M[™] Speedglas[™] Welding Helmet 9100 one of your most important welding tools.

The design of the 9100 headband suspension avoids pressure on vulnerable areas. And it provides multiple adjustment combinations so you can tailor the helmet to fit your personal preferences and comfort settings, while increasing helmet stability.





3M[™] Speedglas[™] Welding Helmet 9100 with

SideWindows and filter 9100V

Designed for your ultimate protection

eddot design award

best of the best 2009

Part Number: 50 18 05



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Features and benefits:

- A selection of welding filters with superior optical performance for continuous viewing comfort. Arc detection down to 1 amp TIG
- ▶ High-comfort 3M[™] Speedglas[™] Headband
- Large coverage for ear and side of head
- SideWindows: Shade 5 filters that widen your field of vision

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- Meets the requirements of mechanical resistance to high speed particles according to EN 175 class B
- ► 100% compatible with our top-of-the-line series of 3M[™] Speedglas[™] Welding Filter Series 9100
- Exhaust vents readily direct exhaled air out of the helmet, reducing likelihood of a foggy welding filter



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The headband that shapes to your head

3M[™] Speedglas[™] Welding Helmet 9100 Consumables

Part Number	Description	Quantity
526000	Outer Protection Plate Standard for 9100 Helmet	10 per pack
528005	Inner Cover Plate for 9100V Filter	5 per pack
168015	Comfort Sweat Band for 9100 Helmet	3 per pack

Coverage is key

Helmet coverage is a concern among many welders. And the 9100 series welding helmets are deeper and wider compared to earlier series, improving coverage of ears, neck and sides of the head from heat and welding sparks. In addition there are several accessories available to extend coverage.

More comfortable when raised

Lifted into the raised position, the helmet's high point is lower than many other helmets. From a design standpoint that means keeping the helmet as close as possible to your head. Because the helmet is more balanced, you do not need to tighten the headband as much, further increasing your wearing comfort.

Parking position

The smooth up-and-down pivot action can be locked in the up position – a light pull lowers the helmet back down again.

Protective Coveralls

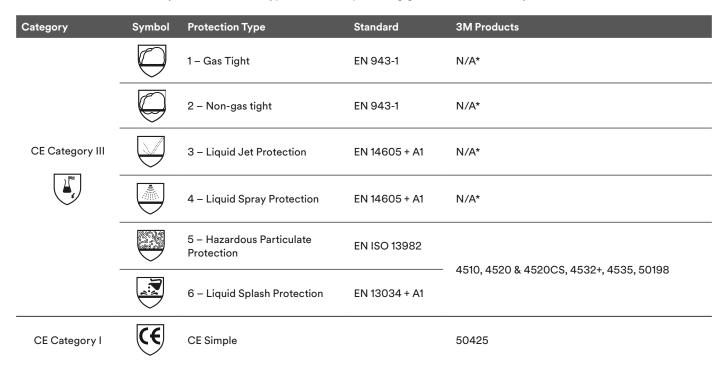
From cleaning and machine maintenance to grinding and paint spraying, the range of 3M[™] Protective Coveralls are CE certified and offer protection against many hazards typically found in a bodyshop environment. The range offers a variety of features, from the use of fabrics with specialist treatments for enhanced wear and added protection to breathable back panels for increased comfort.

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There are many tests and standards that apply to protective coveralls and selection can be a daunting task. The following section outlines the different options available to help you select the right product for your employees.

Protection types

Depending on the materials and construction protective coveralls can be designed for either hazardous applications (certified to CE Category III) or non-hazardous applications (approved as CE Simple Category 1). Products for hazardous applications can be tested and certified to any of six different "Type" standards providing guidance on suitability of use:



* Contact your 3M Representative for more on solutions which may not be included here.

Additional standards

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Some 3M protective coveralls and their materials are approved to additional standards for specialist applications.

Symbol/Standard	Protection Type
	Protection against micro-organisms or infective agents (EN 14126:2003)
	Protection against nuclear particles (EN 1073-2:2002)
<u>Ly</u>	Anti-static (EN 1149-5:2008)
ISO 15025 / ISO 14116	Limited Flame Spread Resistance
	Where added to the above symbols please refer to the appropriate user instructions for further information on the compliance of this product

3M Product Selection Guide

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ЗМ	50425	4510	4520 & 4520CS	4532+	4535	50198
	Category 1	Category 3	Category 3	Category 3	Category 3	Category 3
	Œ					
CE Certification**		He I	H.	Le Le		
Material weight	67gsm	47gsm	43gsm	52gsm	55gsm laminate 43gsm SMMMS	60gsm laminate 54gsm SMMS
Size	M-2XL	S-4XL	S-4XL Note: 4520CS M-2XL only	S-4XL	S-3XL	M-2XL
Colours	Ŕ	Ŵ	Â	ŔŔ	Å	Â
Cleaning and area maintenance						
Dusting, sanding and polishing		٠	•	٠		
General body and mechanical work and preparation	•	•	•	•	•	•
Metal polishing and dusts from metal grinding		٠	•	٠	•	•
Paint spraying (water based paint, non-hazardous)	•	٠	•	٠	•	•
Paint spraying & powder coating						
Coating & resin applications				٠		
Machine maintenance, oil/greasy environments		•				

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Suitable for consideration

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* In all cases, product selection should be based on a full risk assessment. Always read product user information. Use limitations and performance data should be considered to ascertain the protection required. If in doubt, contact a safety professional. This guide is only an outline. It should not be used as the only means for selecting protective clothing. Details regarding performance and limitations are set out on the packaging and user instructions. Before using any protective clothing, the wearer must read and understand the user instructions for each product. Specific country legislation must be observed. If in doubt, contact a safety professional or 3M – www.3M.eu/safety. Always check the compatibility of the suit material before selection. Please note that the personal protective equipment (PPE) shown highlight some of the products which may be considered. Sections of the most appropriate PPE will depend on the particular situation and should be made only by a competent person knowledgable of the actual working conditions and the limitations of PPE.

** See user instructions or technical datasheets for full details.

⚠ Material meets standard requirements

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Œ 3M[™] Reusable Coverall 50425

The 3M[™] Reusable Coverall 50425 provides user and garment protection in a wide variety of environments and situations. Extremely comfortable, it is made from a lightweight, breathable polyester.

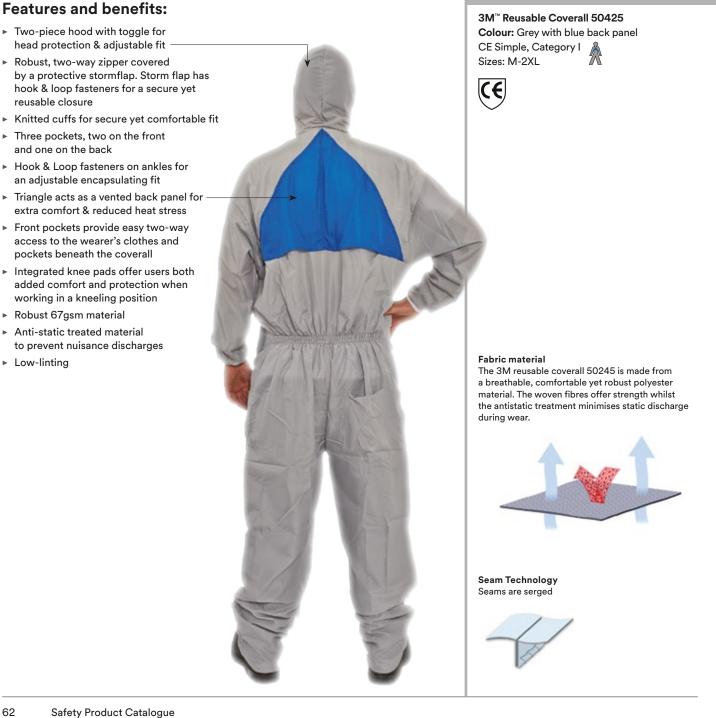
The coverall has wide leg openings with adjustable hook and loop straps around the ankle, making it easy to put on and remove, even when wearing boots.



Typical Applications

- Paint spraying (water based paint, non-hazardous)
- General body and mechanical work and preparation
- Dusting, sanding and polishing
- Cleaning and area
- maintenance

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3M[™] Protective Coverall 4510

The 3M[™] Protective Coverall 4510 is an economic solution which offers quality and protection from limited chemical splashes such as those from paint spraying and is certified to the PPE Directive Category III, Type 5/6 protection standards. The material is microporous, allowing air and moisture to escape from within the suit, while helping to protect from the hazard on the outside.

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Typical Applications

- Paint spraying & powder coating
- Coating & resin applications
- Metal polishing and dusts
- Dusts from metal grinding

Features and benefits:

- Excellent barrier against dry particles and certain limited liquid chemical splash (CE Type 5/6)
- Laminated microporous material —
- 2-way zipper with storm flap for added on-off convenience and extra protection
- Elastic cuffs, waist and ankles for a better fit and freedom of movement
- Super low-linting

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- Anti-static treatment to EN 1149 to reduce charge build up
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles

3M[™] Overhood 446

- Made of the same microporous laminated material as the Type 5/6 3M[™] Protective Coverall 4510
- Anti-static treated
- Drapes over the shoulders offering excellent coverage
- Favoured for spot repair jobs and suitable for use with collared coveralls

3M[™] Oversleeve 444

- ► Made of the same laminated material as the Type 5/6 3M[™] Protective Coverall 4510
- 16 inch length covering wrist to top of arm
- Elasticated closing on top of sleeve and around the wrist for a secure fit
- Anti-static treated



3M[™] Protective Coverall 4510 Type 5/6 Colour: White

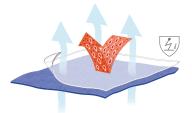
CE Category III Sizes: S-4XL



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Fabric material

The anti-static treated 3M protective coverall 4510 material is made using a layer of soft, spunbond polypropylene and a layer of light, but high quality anti-static treated polyethylene laminate film giving good levels of barrier efficiency and protection.



Seam Technology Seams are serged for Type 5/6 and certain seams bound for extra protection.



3M[™] Protective Coverall 4520 & 3M[™] Protective Coverall 4520CS

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Made using the latest lightweight, breathable material technology 3M presents the 3M[™] Protective Coverall 4520, a PPE Directive Category III, Type 5/6 protective garment.

The 3M[™] Protective Coverall 4520CS has the same premium comfort and protection as the standard 3M protective coverall 4520, but with a standard collar for greater compatibility with Powered and Supplied Air Respirators or for those applications not requiring a hood.



Typical Applications

- Metal polishing and dusts
- Dusts from metal grinding
- Light paint spraying/powder coating
- Light industrial cleaning
- Machine maintenance

Features and benefits:

- Excellent barrier against dry particles and limited liquid splash (CE Type 5/6)
- SMMMS material technology for reduced heat stress and breathable comfort all day
- Low-linting

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- Extremely lightweight and comfortable compared to many certified coveralls available in the marketplace
- 3-panel elasticated hood for enhanced compatibility with complimentary PPE –
- Knitted cuffs and elasticated waist and ankles for increased comfort and freedom of movement
- 2-way zipper with sealable tab on stormflap for added convenience and extra protection
- Anti-static treatment to EN 1149 to reduce charge build up
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles



3M[™] Protective Coverall 4520CS

- Also available with a standard collar finish on the neck, for when a hood is not required or interferes with alternative head, face or respiratory protection
- Sizes: M-2XL

3M[™] Protective Coverall 4520 Type 5/6 Colour: White with green back panel CE Category III



Fabric Material

With 3 layers of melt-blown polypropylene in-between 2 layers of spunbound polypropylene, the 3M protective coverall 4520 fabric has been specifically designed to improve air flow and breathabilty, thereby reducing heat stress and enhancing comfort levels. The middle 3 layers act as a filter to effectively protect against hazardous dust and splash and the outer 2 layers offer strength and durability whilst maintaining a soft, comfortable feel.



Seam Technology Seams are serged for Type 5/6 protection.



64 Safety Product Catalogue

3M[™] Protective Coverall 4532+

The 3M[™] Protective Coverall 4532+ is made from a highly breathable and lightweight 5 layered SSMMS material, providing the wearer with CE Category III, Type 5/6 protection with specialist treatments providing anti-static protection and an enhanced liquid repellency.



Typical Applications

- Metal polishing and dusts
- Dusts from metal grinding
- Oil/greasy environments
- Painting and coating
- Light industrial cleaning
- Machine maintenance



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- to be used in many applications not usually suitable for SMS Based coveralls
- 3-panel elasticated hood for enhanced compatibility with complimentary PPE –
- Knitted cuffs and elasticated waist and ankles
- 2-way zipper for added convenience and a storm flap with full sealable tape for extra protection
- Enhanced and reinforced triangular gusset panel to increase product durability
- Anti-static treatment to EN 1149 to reduce charge build up
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles
- ► Low linting
- Available in blue (with a light blue triangle back panel) and Cool white





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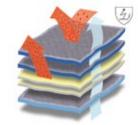
3M[™] Protective Coverall 4532+ Type 5/6

Colour: Blue with a light blue back panel and Cool white CE Category III Sizes: S-4XL



Fabric Material

The 3M protective coverall 4532+ is made using a 52gsm SSMMS, which consists of two outer layers of spunbond polypropylene (SS) encasing two layers of melt-blown polypropylene (MM) and a third layer of spunbond (S) on the underside. The fabric has been specifically designed to be durable whilst enabling air flow thereby reducing heat stress and enhancing wearer comfort. The middle 2 layers act as a filter to effectively protect against noxious dust and splash whilst the outer layers offer strength and increased liquid hold out from the alcohol and oil repellence treatment. ۲



Unique treatment encourages the oil to bead rather than soak through.



Seam Technology Seams are serged for Type 5/6 and certain seams bound for extra protection.



3M[™] Protective Coverall 4535

If you're looking for a balance of protection, durability and additional comfort, look no further than the 3M[™] Protective Coverall 4535. Certified to PPE Directive Category III, Type 5/6 protection, it utilises a dual material design with added comfort features to optimise wearer acceptance.



Typical Applications

- Coating & resin applications
- Light industrial cleaning
- Machine maintenance
- Paint spraying & powder coating
- Metal polishing and dusts
- Dusts from metal grinding

Features and benefits:

- Excellent barrier against dry particles and certain limited liquid chemical splash (CE Type 5/6)
- Robust, super low-linting laminated microporous material
- Extra large breathable back panel for improved air circulation and reduced heat stress
- 2-way zipper with storm flap for added on-off convenience and extra protection
- Knitted cuffs with elasticated waist and ankles for increased comfort and freedom of movement
- Low-linting

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- Anti-static treatment to EN 1149 to reduce charge build up
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles

Overboots

3M[™] Overboot 450





Standard Sole

Slip Resistant Sole

- Elastic at the calf
- Universal size with ties to help provide a good fit
- ► Made of the same laminated material as the Type 5/6 3M[™] Protective Coverall 4535
- 3M overboot 450 has a PVC sole to help reduce the risk of slipping
- Laminated material ties to minimise particle shed and contamination in particle restricted environments such as cleanrooms



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3M[™] Protective Coverall 4535 Type 5/6 Colour: White with blue back panel

CE Category III Sizes: S-3XL



Fabric Material

The front of the 3M protective coverall 4535 combines a high quality polyethylene laminate providing an excellent barrier, on top of a layer of soft, spunbond polypropylene fibres creating a robust, yet comfortable protective fabric. The large blue back panel is made from 5 layers of spunbond and meltblown polypropylene giving excellent breathability, whilst maintaining the Type 5/6 level of protection. ۲



SMMMS back-panel



Microporous laminate fabric

Seam Technology Seams are serged for Type 5/6 and certain seams bound for extra protection.



3M[™] Paintshop Coverall 50198

The 3M[™] Paintshop Coverall 50198 is CE Certified Category III to Type 5/6 standards. It is certified to EN 119 to reduce the build up of static charge. Made from a super low-linting robust laminate on the front, it offers a breathable SMMS triangle in the back to offer the optimum balance between protection and comfort.

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Typical Applications

- Machine maintenance
- Dusts from
- Paint spraying & powder coating
- Coating & resin ► applications
- Metal polishing and dusts
- metal grinding

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Features and benefits:

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- Excellent barrier against dry particles and certain limited liquid chemical splash (CE Type 5/6)
- Self adhesive pocket included with each suit (made from laminated material)
- 3-panel hood design for enhanced compatibility with complimentary PPE
- > 2-way zipper with storm flap for added on-off convenience and extra protection
- Knitted cuffs with elasticated waist and ankles for increased comfort and freedom of movement
- Super low-linting microporous laminate material with breathable low linting SMMS triangle
- Anti-static treatment to EN 1149 to reduce charge build up
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles
- Supplied in case with die cut to act as a storage option with easy access



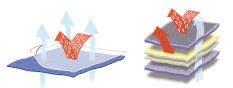
Colour: White with blue triangular back panel CE Category III Size: M-2XL

3M[™] Paintshop Coverall 50198 Type 5/6



Fabric Material

The front of the 3M paintshop coverall 50198 combines a high quality polyethylene laminate providing an excellent barrier, on top of a layer of soft, spunbond polypropylene fibres creating a robust, yet comfortable protective fabric. The large blue back panel is made from 4 layers of spunbond and meltblown polypropylene (SMMS) giving excellent breathability, whilst maintaining the Type 5/6 level of protection.



Seam Technology Seams are serged for Type 5/6 and certain seams bound for extra protection.





www.3Mbodyshop.co.uk



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