

A photograph of two workers in an industrial setting. They are wearing blue hard hats and large, grey respirators with blue filters. The worker on the right is also wearing a dark blue jacket with reflective yellow-green stripes. The background is a blurred industrial environment with various pipes and machinery. A white diagonal line runs from the top right corner towards the bottom left, partially overlapping the workers.

**3M** Science.  
Applied to Life.™

3M Personal Safety Division

# Worker Health and Safety Product Catalog

3M Personal Safety Division

# Safety Solutions from the Brand You Trust

## Our Brand Promise

3M is dedicated to improving work safety and comfort. We do this by designing and producing innovative and reliable products that meet the needs of a wide range of workplace conditions. Our products meet industry best practices as well as CSA, ANSI, NIOSH, EN and OSHA standards. The products in this catalogue are among the many offered by 3M to enhance the quality of the workplace and offers your workers with the most effective protection available.

## Contents










3M™ Disposable Respirators .....	1 - 10
3M™ Reusable Respirators .....	11 - 23
3M™ Hearing Protection Solutions .....	24 - 36
3M™ Communication Solutions .....	37 - 44
3M™ Protective Eyewear .....	45 - 55
3M™ Hard Hats .....	56 - 60
3M™ Protective Coveralls .....	61 - 65
3M™ Training and Support .....	66 - 68

## Comfort options that work for you.

Workers want respirators that are comfortable, lightweight and convenient. 3M developed the first disposable respirator to receive NIOSH approval in 1972. We have created numerous patented technologies that have been incorporated throughout our products. Today, our extensive family of respirators offers a full range of comfort, convenience and value. Respiratory protection from a company you can rely on for support and services.

### Unique Technologies

3M technological benefits help you match the right respirator to your environment.

 <p><b>Cool Flow™ Exhalation Valve</b></p> <p>Proprietary one-way valve for easy exhalation and cool, dry comfort.</p>	 <p><b>M-noseclip</b></p> <p>Proprietary noseclip adjusts easily for fewer pressure points and greater comfort.</p>	 <p><b>Face Seal</b></p> <p>Soft and secure, conforms closely to face for additional comfort.</p>	 <p><b>Advanced Electret Media</b></p> <p>Proprietary filter media with electrostatically charged microfibers help make breathing easier and cooler.</p>	 <p><b>Welding Web</b></p> <p>Unique filter media incorporating protective layers designed to be flame resistant as demonstrated per ASTM 02859-96. (Not a substitute for a faceshield).</p>
 <p><b>Cake-resistant filter media</b></p> <p>Proprietary filter media with specifically designed filter layers for welding applications provide longer respirator life and easier breathing.</p>	 <p><b>Adjustable buckle straps</b></p> <p>A single tug helps provide a comfortable, secure fit.</p>	 <p><b>P-series filter</b></p> <p>Proprietary Advanced Electret Media, appropriate for prolonged use in both oil and non-oil containing environments.</p>	 <p><b>Carbon filter material</b></p> <p>Carbon filter media provides relief against odours, vapour and other gaseous contaminants for greater wearer comfort. For nuisance level relief only<sup>1</sup>.</p>	

### The selection of respiratory protection equipment follows a basic four-step method:

<p><b>Step 1</b></p> <p><b>Identify the hazards</b> – dust, metal fume, gas, vapour etc.</p>	<p><b>Step 2</b></p> <p><b>Assess the risk</b> – assess the hazard levels against safety standards and consider other protection - skin, eye and body.</p>	<p><b>Step 3</b></p> <p><b>Select the right respirator</b> – disposable, reusable, half face mask, full face mask, powered, supplied air etc.</p>	<p><b>Step 4</b></p> <p><b>Train in fitting and use</b> – to optimise respiratory protection</p>
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#### ! Important

- Before using, you must determine the following:
1. The types of contaminants for which the respirator is being selected and exposure time.
  2. The concentration level of the contaminant(s). Do not use for particle concentrations that exceed 10 times the OSHA PEL or applicable occupational exposure limit, whichever is lower.
  3. Whether the respirator can be properly fitted to the wearer's face. Do not use with beards, or other conditions that prevent a good seal between the face and the sealing surface of the respirator.
  4. Before required use of disposable respirators, a written respiratory protection program must be implemented, meeting all the requirements of OSHA 29 CFR 1910.134 including medical evaluation, training, fit testing.

#### ⚠ Warning

Each respirator helps protect against certain particles only. Misuse may result in sickness or death. For proper use, see supervisor, instructions or contact 3M Technical Service in Singapore.

#### Do not use for:

Gases and vapors, including those present in paint spraying operations, asbestos or sandblasting, aerosol concentrations that exceed 10 times the OSHA PEL, or applicable governmental regulations, whichever is lower. These respirator does not supply oxygen and cannot be used in confined spaces.

<sup>1</sup> 3M recommends for relief against nuisance level acid gas or organic vapours. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.



# 3M™ Disposable Respirators

A comfortable 3M™ Disposable Respirator can help to make your workers want to wear one and promote compliance as required at all times during exposure.



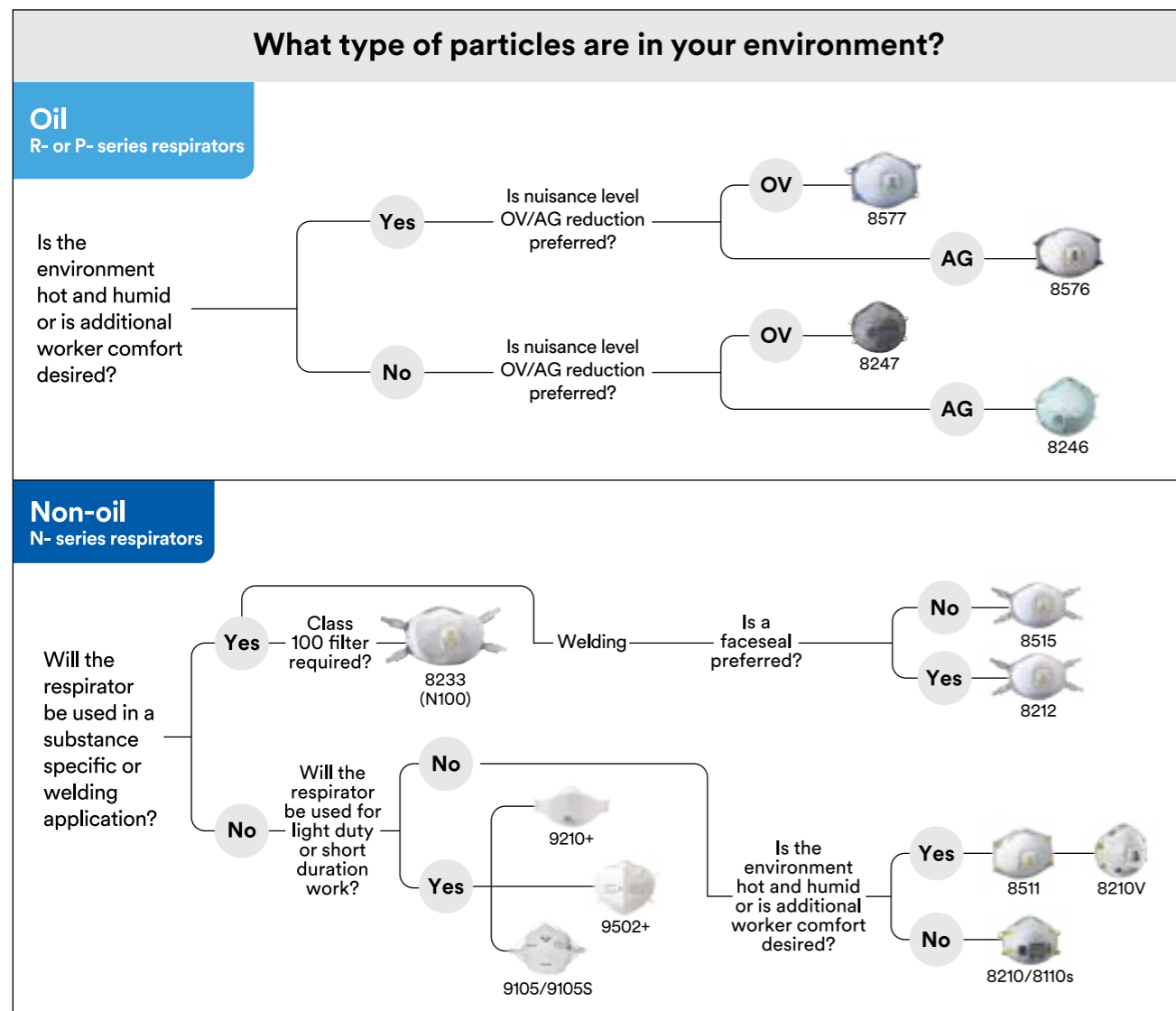
## Index

### Time use limitation

- If respirator becomes damaged, soiled, or breathing becomes difficult, leave the contaminated area and replace respirator.
  - \* 3M recommends for relief from nuisance levels of acid gas. Nuisance level refers to concentrations not exceeding the OSHA PEL, or applicable government occupational exposure limits, whichever is lower.
- If used for ozone protection, replace respirator in accordance with an established change schedule, or earlier if smell, taste, or irritation from contaminants is detected.
  - \*\* 3M recommends for relief from nuisance levels of organic vapors. Nuisance level refers to concentrations not exceeding the OSHA PEL, or applicable government occupational exposure limits, whichever is lower.
- If oil aerosols are present, time use may be limited to 8 hours of continuous or intermittent use.
  - \*\*\* 3M recommends for ozone protection up to 10 times the OSHA PEL or applicable government occupational exposure limits, whichever is lower.
- If used in environments containing only oil aerosols, replace respirator after 40 hours of use or 30 days, whichever is first.

## 3M™ Disposable Respirator Preference Selector According To NIOSH US Standards

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



\*3M recommended for ozone protection up to 10 times the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

## Standard

Time Use Limitation: 1

**NIOSH N95 approved respirators:** Protection against certain non-oil based particles. Suggested applications: grinding, bagging, sanding and sweeping. Also suggested for extended wear time, hot/humid conditions, other dusty operations and pandemic stockpiling/business continuity planning. Comfort respirators all feature the proprietary 3M™ Cool Flow™ Exhalation Valve.



### 3M™ Particulate Respirator 9502+ (N95)

- Vertical flat fold design convenience.
- Adjustable noseclip that helps provide a custom fit and secure seal.
- Packaging: 50each/box, 10 boxes/case



### 3M™ VFlex™ Particulate Respirator 9105/9105S (N95)

- Adjustable noseclip to provide custom fit.
- V-shaped pleats for easier breathing and talking.
- Flat-fold convenience.
- 9105S designed for people with smaller faces.
- Packaging: 50each/box, 8 boxes/case



### 3M™ Particulate Respirator 8210/8110S (N95)

- Features welded strap attachment, strap attachment, soft nose foam and adjustable noseclip to help provide a custom fit and secure seal.
- 8110S designed for people with smaller faces.
- Packaging: 20each/box, 8 boxes/case

## Comfort



### 3M™ Particulate Respirator 8511 (N95)

- M-Noseclip adjusts easily for fewer pressure points and greater comfort.
- 3M™ Cool Flow™ Exhalation Valve helps reduce heat build up inside the respirator to provide comfort in hot/humid work settings or longer periods of wear.
- Packaging: 10each/box, 8 boxes/case



### 3M™ Particulate Respirator 8210V (N95)

- 3M™ Cool Flow™ Exhalation Valve helps reduce heat build up inside the respirator.
- An economical choice for hot/humid work settings or longer periods of wear.
- Packaging: 10each/box, 8 boxes/case



### 3M™ Aura™ Particulate Respirator 9210+ (N95)

- Unique three-panel, flat-fold design to provide exceptional comfort and direct exhaled air away from the nose panel, helping reduce eyewear fogging.
- Individually packed to provide convenient storage and portability.
- Innovative chin tab designed for ease of positioning, donning & adjustment.
- Packaging: 20each/box, 12 boxes/case

## Class 100 Respirators:

Time Use Limitation: 1

Well suited for those who want NIOSH's highest rated filtration efficiency in a maintenance free respirator.



### 3M™ Particulate Respirator 8233<sup>1</sup> (N100)

- It provides a minimum filter efficiency of 99.97% against non-oil based particles.
- Individually packaged to provide convenient storage, portability and hygiene.
- Adjustable noseclip and fully adjustable headbands help to provide secure seal and fit.
- Packaging: 20each/case



# Welding

**Welding and Metal Pouring:** Suggested Applications: Welding, metal pouring, torch cutting, brazing and soldering. Welding respirators all feature the proprietary 3M™ Cool Flow™ Exhalation Valve and cake-resistant filter media that is specifically designed for longer respirator life and easier breathing in welding and metal pouring applications. They are also flame resistant as demonstrated per modified ASTM D2859 (not a substitute for a faceshield).

<sup>i</sup> Time Use Limitation: 1  
<sup>ii</sup> Time Use Limitation: 1 & 2



### 3M™ Particulate Respirator with Faceseal 8212<sup>i</sup> (N95)

- Designed for applications where metal fumes are present.
- Adjustable noseclip and fully adjustable headband help to provide secure fit and seal.
- Compatible with a variety of protective eyewear and hearing protection.
- Foam faceseal provides long comfort for wearers.
- Packaging: 10each/box, 8 boxes/case



### 3M™ Particulate Respirator 8515<sup>i</sup> (N95)

- Designed for applications where metal fumes are present.
- Adjustable M-noseclip help to provide custom fit and secure seal.
- Packaging: 10each/box, 8 boxes/case

## 3M™ Welding Disposable Respirators Comparison

Product	3M™ Cool Flow™ Exhalation Valve	M-Noseclip	Face-Seal	Advanced Electret Media	Cake Resistant Media	Adjustable Straps	Welding Web	APF*
Welding and Metal Pouring								
8212	•		•	•	•	•	•	10
8515	•	•		•			•	10

# Specialty

**Specialty Respirators for dusty conditions with nuisance odor:**

<sup>i</sup> Time Use Limitation: 1 & 3  
<sup>ii</sup> Time Use Limitation: 1 & 4

## Non-valved Specialty Respirators

Suggested Applications: Grinding, bagging, sanding, sweeping in oil and non-oil environments and other dusty operations.



### 3M™ Particulate Respirator 8246<sup>i</sup> (R95)

- Provide protection against certain oil and non-oil based particles including those present with nuisance levels of acid gases\* such as sulphur dioxide, hydrogen fluoride, and / or chlorine.
- Suggested Applications: Glass etching, chemical processing, paper processing, aluminum smelting and brewing operations.
- Packaging: 20each/box, 6 boxes/case



### 3M™ Particulate Respirator 8247<sup>i</sup> (R95)

- Provide protection against certain oil and non-oil based particles including those present with nuisance levels of organic vapors\*, such as solvents, degreasers and resins.
- Suggested Applications: Foundry operations, lab settings, agriculture, petrochemical manufacturing and undercoating
- Packaging: 20each/box, 6 boxes/case



## Valved Specialty Respirators

Features the proprietary 3M™ Cool Flow™ Exhalation Valve. Suggested for extended wear time, hot or humid conditions.



### 3M™ Particulate Respirator 8576<sup>ii</sup> (P95)

- Designed to help provide comfortable, reliable worker protection against certain oil and non-oil based particles including those present with nuisance levels of acid gases\* such as sulphur dioxide, hydrogen fluoride, and / or chlorine.
- Suggested Applications: Glass etching, chemical processing, paper processing, aluminum smelting and brewing operations.
- Packaging: 10each/box, 8 boxes/case



### 3M™ Particulate Respirator 8577<sup>ii</sup> (P95)

- Designed to help provide comfortable, reliable worker protection against certain oil and non-oil based particles including those present with nuisance levels of organic vapors\* such as solvents, degreasers and resins.
- Suggested Applications: Foundry operation, lab settings, agricultural, petrochemical, manufacturing and undercoating.
- Packaging: 10each/box, 8 boxes/case



\* 3M recommended for relief against nuisance level acid gas or organic vapors. Nuisance level is less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.

## 3M™ Aura™ Foldable Particulate Respirators 9300A+ Series

Time Use Limitation: 1 & 3

This series is a new generation of respirators with 3-panel foldable design for comfort, easy communication and improved wearer acceptance. Foam nosebridge absorbs sweat, is comfortable and enhances face seal.

### 3M™ Aura™ Non-valved Respirators 9300A+ Series

Suggested Applications: Grinding, bagging, sanding, sweeping in oil and non-oil environments and other dusty operations.



#### 3M™ Aura™ Particulate Respirator 9310A+ (FFP1 / P1)

- The respirator is for use against dusts found in a wide variety of industrial applications and other work situations, requiring P1 protection.
- Conforms to Standard: EN149, AS / NZS 1716.
- Maximum use levels: 10 x WELs.
- Individually packaged for convenient storage, portability and hygiene.
- Packaging: 20each/box, 12 boxes/case

### 3M™ Aura™ Valved Respirators 9300A+ Series

Features the proprietary 3M™ Cool Flow™ Exhalation Valve. Suggested for extended wear time, hot or humid conditions.



#### 3M™ Aura™ Particulate Respirator 9322A+ (FFP2 / P2)

- This valved respirator is for use in hot and humid environments and where P2 protection is required.
- Conforms to Standard: EN149, AS / NZS 1716.
- Maximum use levels: 10 x WELs.
- Individually packaged for convenient storage, portability and hygiene.
- Packaging: 10each/box, 12 boxes/case



#### 3M™ Aura™ Particulate Respirator 9332A+ (FFP3 / P3)

- This valved respirator is for use in hot and humid environments and where P3 protection is required.
- Conforms to Standard: EN149, AS / NZS 1716.
- Maximum use levels: 20 x WELs.
- Individually packaged for convenient storage, portability and hygiene.
- Packaging: 10each/box, 12 boxes/case

## 3M™ Foldable Particulate Respirators

Time Use Limitation: 1



#### 3M™ Particulate Respirator 9542 (P2)

- Economical non-valved respirator for use against liquid particles from sprays that do not emit harmful vapors.
- Suggested Applications: foundries, mining, agriculture and petrochemical.
- Conforms to AS/NZS 1716
- GB2626 Standards
- Carbon layer provides relief from nuisance levels of organic vapor.\*
- Packaging: 25 each/box, 10 boxes/case



#### 3M™ Particulate Respirator 9542V (P2)

- Economical valved respirator for use against liquid particles from sprays that do not emit harmful vapors.
- Suggested Applications: foundries, mining, agriculture and petrochemical.
- Conforms to AS/NZS 1716
- GB2626 Standards
- Carbon layer provides relief from nuisance levels of organic vapor.\*
- Features the proprietary 3M™ Cool Flow™ Exhalation Valve for better comfort.
- Packaging: 20 each/box, 10 boxes/case



#### 3M™ Particulate Respirator 9501+ (P2)

- Vertical flat-fold design and twin packed to offer convenient storage and portability.
- Knitted comfortable earloop strap for easy donning and doffing.
- Suggested Applications: Protection against solid particles and liquid mists such as those from grinding, sanding, sweeping, sawing, bagging, or processing minerals, coal, iron ore, flour, metal, wood, pollen, and certain other substances.
- Conforms to AS/NZS 1716
- GB2626 Standards
- Packaging: 50 each/box, 10 boxes/case




\* 3M recommends for relief from nuisance levels of organic vapors. Nuisance level refers to concentrations not exceeding the OSHA PEL, or applicable government occupational exposure limits, whichever is lower.

# The importance of fit

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

**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



- 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



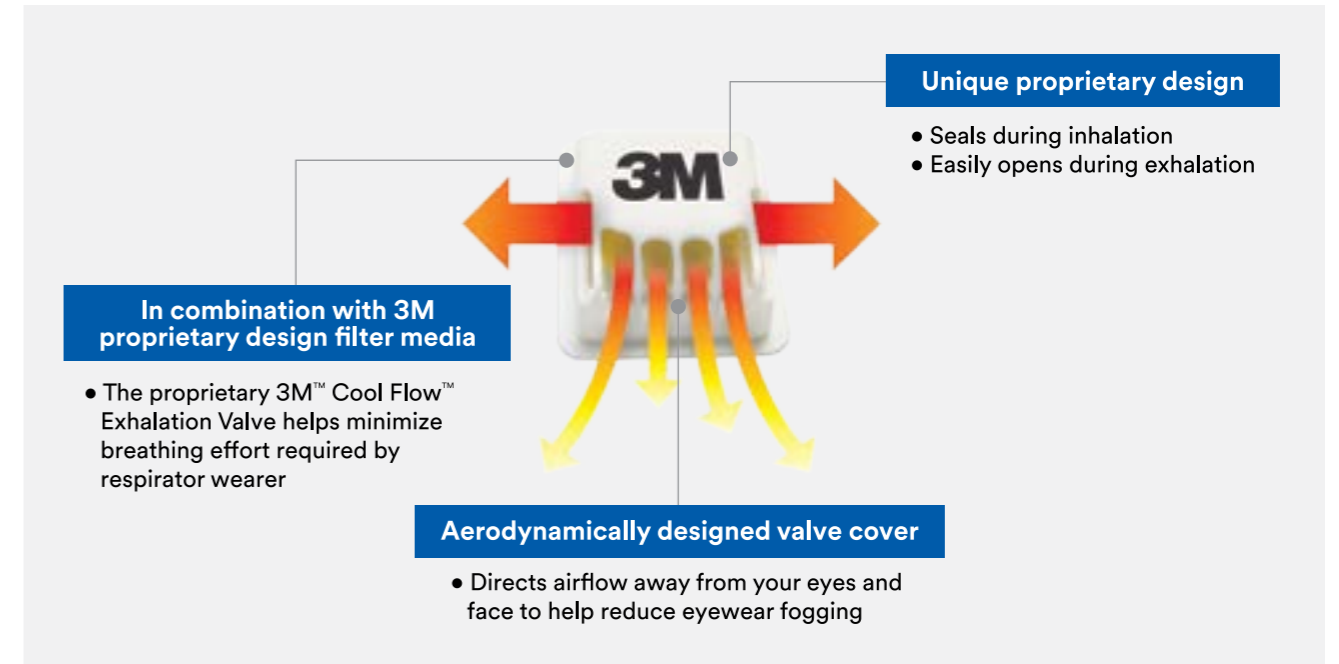
- A pre-use fit check must be conducted every time you fit your respirator
- Cover the front of the respirator with both hands, being careful not to disturb the fit of the respirator
- Unvalved respirator – exhale sharply, Valved respirator – inhale sharply
- If air leaks around the nose, re-adjust the noseclip to eliminate leakage
- If air leaks at the respirator edges, work the straps back along the sides of the head or adjust the tension to eliminate leakage

Repeat the above fit check.  
If you cannot achieve a proper fit do not enter the hazardous area - see your supervisor.



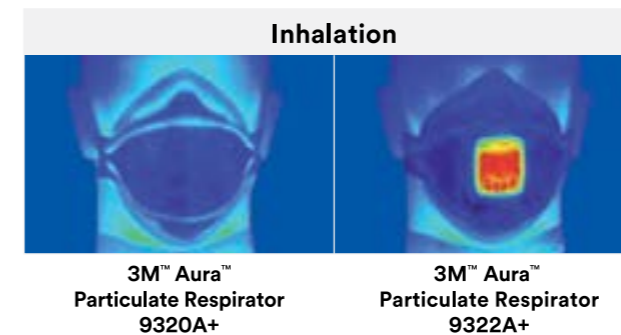
One model of respirator may not fit everyone. Users should be fit tested in accordance with national requirements. For information on fit testing procedures, contact your safety officer or 3M.

# The proprietary 3M™ Cool Flow™ Exhalation Valve



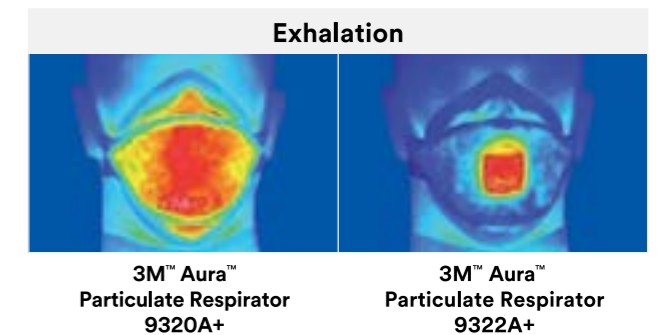
# Visible from the outside, comfort on the inside: Experience the difference with 3M™ Cool Flow™ Exhalation Valve

The colors in the thermal images below show the change in surface temperature of the valved and unvalved respirators as the model inhales and exhales.



Inhalation is the cooler part of the cycle; with both the 3M™ 8511 Particulate Respirator (valved) and the 3M™ 8510 Particulate Respirator (unvalved). The 3M filter media facilitates an easy draw of cooler external air.

As the wearer inhales, air is pulled through the respirator and surface temperature decreases. The valve's plastic cover, because of the material composition, retains some of the heat.



As the wearer exhales, the respirator is filled with warm, moist air. The cooler thermal imaging shades of the picture on the right indicate how the 3M™ 8511 Particulate Respirator, fitted with the 3M™ Cool Flow™ Exhalation Valve expels the breath, together with its natural heat, more rapidly. As the hot exhaled air exits through the valve, the rest of the respirator remains cooler and more comfortable.

This benefit is ideal for long periods of wear, especially where conditions are hot and humid or when work is physically demanding and likely to cause heavy breathing.



# 3M™ Reusable Respirators

3M™ Reusable Respirators offer exceptional quality and value for money when protecting your workers against industrial gases, vapours and particulate hazards.

## The selection of respiratory protection equipment follows a basic 3M four-step method:

- Step 1**

**Identify the hazards**  
– dust, metal fume, gas, vapor etc.
- Step 2**

**Assess the risk** – assess the hazard levels against safety standards and consider other protection - skin, eye and body.
- Step 3**

**Select the right respirator** – disposable, reusable, half face mask, full face mask, powered supplied air etc.
- Step 4**

**Train in fitting and use** – to optimise respiratory protection.

### Warning





- Reusable respirators help reduce exposures to certain airborne contaminants.
- Before use, wearer must read and understand the User Instructions provided as part of the product packaging.
- Guidelines on The Use of Personal Protective Equipment Against Chemical Hazards under the Occupational Safety and Health (Use and Standard of Exposure of Chemicals Hazardous to Health) Regulations 2000 (SS 548:2022 Code of practice for the selection, use and maintenance of respiratory protective devices) require respirator fit testing.
- Reusable respirators cannot be used in environments with unknown contaminants or at/exceed Immediately Dangerous to Life and Health (IDLH) levels.
- Misuse may result in sickness or death.
- For proper use, see package instructions, your supervisor or contact 3M Technical Service in Singapore.

## Select the Right Facepiece




<b>3M™ Half Facepiece Single Cartridge Respirator</b>	3100 (small/ medium) 3200 (medium/ large)			
<b>3M™ Half Facepiece Dual Cartridge Respirator</b>	 6100 (small) 6200 (medium) 6300 (large)	 6501QL (small) 6502QL (medium) 6503QL (large)	 7501 (small) 7502 (medium) 7503 (large)	 HF-801SD (small) HF-802SD (medium) HF-803SD (large)
<b>3M™ Full Facepiece Dual Cartridge Respirator</b>	 6700 (small) 6800 (medium) 6900 (large)	 FF-401 (small) FF-402 (medium) FF-403 (large)	 FF-801 (small) FF-802 (medium) FF-803 (large)	

Respirator models	3M™ Half Facepiece Single Cartridge Respirator	3M™ Half Facepiece Dual Cartridge Respirator				3M™ Full Facepiece Dual Cartridge Respirator		
3M™ Cool Flow™ Exhalation Valve			•	•	•	•	•	•
Compatible with 3M™ Supplied Air System		•	•	•		•	•	
Compatible with 3M™ Powered Air Purifying Respirators						•	•	
Speaking diaphragm					•		•	•
Thermoplastic (TP) / Silicone(s) Face Seal	TP	TP	S	S	S	TP/S	S	S
Compatible with 3M™ Secure Click™ Cartridges and Filters					•			•

# Product Matrix Selection: 3M™ Half Facepiece Single Cartridge Reusable Respirators

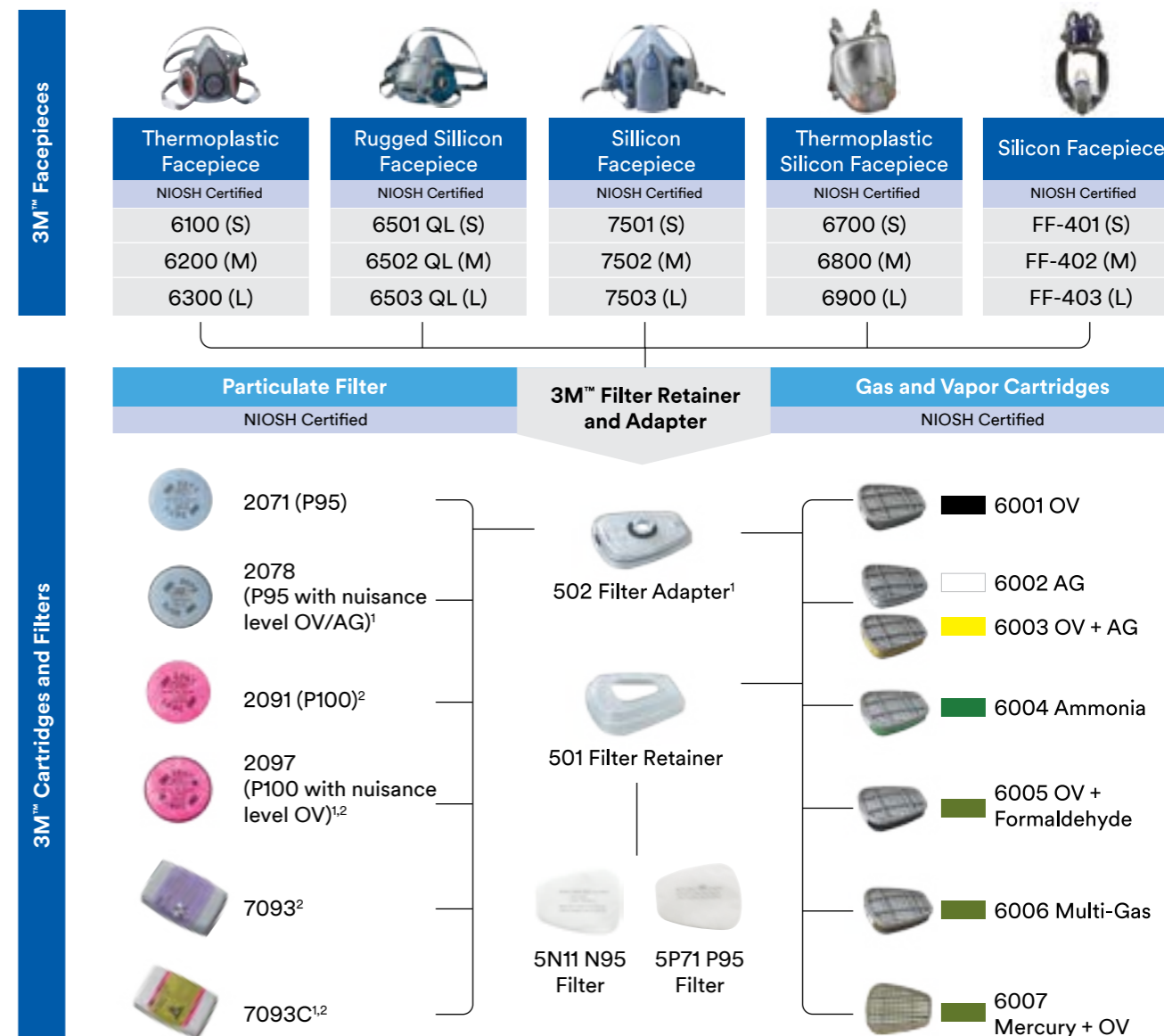
	Particulate Protection Only	Pre-attached. Particulate and Gas & Vapor Protection
 <p>3M™ Half Facepiece Single Cartridge Reusable Respirator 3000 series</p>	 1700	 331K-100 (100 cc)
	 1744 / 1744C	

3M Cartridges, Filters, Retainer and Adapters	
331K-100 (100 cc)	3M™ Organic Vapor Cartridge with P1 Pre-filter, KOSHA Standard
1700	3M™ Filter Holder for use with 1744/ 1744C
1744	3M™ P2 Particulate Filter, KOSHA Standard and AS / NZS 1716
1744C	3M™ P2 Particulate Filter with Nuisance Level Organic Vapour Relief, KOSHA Standard*

Ordering Information - Replacement Parts		
Model	Description	Packaging
<b>For 3000</b>		
 381	3M™ Head Harness Assembly	25ea/case
 382	3M™ Inhalation Valve	100ea/case
 383	3M™ Exhalation Valve	10ea/case

\* 3M recommends for relief from nuisance levels of organic vapors. Nuisance level refers to concentrations not exceeding the OSHA PEL, or applicable government occupational exposure limits, whichever is lower.

# Product Matrix Selection: 3M™ Dual Cartridge Facepiece Reusable Respirators



- Type A** For use against certain organic gases and vapors with boiling point higher than 65°C.
- Type B** For use against certain inorganic gases and vapors.
- Type E** For use against sulphur dioxide and other acidic gases and vapors.
- Type K** For use against ammonia and organic ammonia derivatives.
- Type Hg-P3** For use against mercury. Incorporates a particulate filter.

<sup>1</sup> Do not reuse.

<sup>\*</sup> Filter with nuisance level organic vapor / acid gas relief. 3M recommends for relief against nuisance levels less than OSHA PEL or applicable government exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

<sup>\*\*</sup> Cartridge filter with hydrogen fluoride and nuisance level organic vapor / acid gas relief. 3M recommends for relief against nuisance levels less than OSHA PEL or applicable government exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

## 3M™ Particulate Filters and 3M™ Gas / Vapor Cartridges

All 3M™ Particulate Filters and 3M™ Gas / Vapor Cartridges can be used interchangeably with 3M™ Reusable Respirators 6000, 6500QL, 7000 and FF-400 Series.

3M™ Particulate Filters 2000 Series	Part Number	Description
 <p>NIOSH Certified</p> <ul style="list-style-type: none"> <li>• Lightweight and easy to breathe through.</li> <li>• Assortment of filters available for a wide range of applications.</li> <li>• Easier breathing through new 3-layer advanced Electret Filter Media.</li> </ul>	2071	3M™ Particulate Filter, P95
	2078	3M™ Particulate Filter, P95 with Nuisance Level Organic Vapor / Acid Gas Relief*
	2091	3M™ Particulate Filter, P100
	2097	3M™ Particulate Filter, P100 with Nuisance Level Organic Vapor / Acid Gas Relief*
3M™ Particulate Filter 6000 Series	Part Number	Description
 <p>NIOSH Certified</p> <ul style="list-style-type: none"> <li>• Unique, spring-loaded filter cover design simplifies negative pressure user seal checks.</li> <li>• Swept-back design provides enhanced field of view and greater comfort.</li> <li>• Channelled airflow protects filter for enhanced breathability and longer service life.</li> </ul>	7093	3M™ Particulate Filter 7093, P100
	7093C	3M™ Hydrogen Fluoride Cartridge/Filter, P100 with Nuisance Level Organic Vapor and Acid Gas Relief*
3M™ Gas / Vapor Cartridges 6000 Series	Part Number	Description
 <p>NIOSH Certified</p> <ul style="list-style-type: none"> <li>• Swept-back design helps maintain good field of vision and comfort.</li> <li>• Full range of cartridges to meet your needs</li> <li>• Simple installation and usage requirements reduce training needs.</li> </ul>	6001	3M™ Organic Vapor Cartridge
	6002	3M™ Acid Gas Cartridge
	6003	3M™ Organic Vapor/Acid Gas Cartridge
	6004	3M™ Ammonia Methylamine Cartridge
	6005	3M™ Formaldehyde/Organic Vapor Cartridge
	6006	3M™ Multi Gas/Vapor Cartridge
	6007	3M™ Mercury Vapor/Organic Vapor/Acid Gas Cartridge


















Scan here to download our 3M™ Respirator Selection Guideline.



\* 3M recommends for relief against nuisance levels of organic vapors and acid gases. Nuisance level organic vapor and acid gas refers to concentrations not exceeding OSHA PEL or applicable government occupational exposure limits, whichever is lower. Do not use for respiratory protection against acid gases or organic vapors (except hydrogen fluoride).

Note: Please refer to local regulation if PEL/OEL/WEL exists, whichever is lower.

## 3M™ 6000 & 7000 Series Replacement Parts

Ordering Information - Replacement Parts			
Product No.	Product	Description	Packaging
<b>For 6200 Series Half Facepiece Respirators</b>			
6281		3M™ Head Strap Assembly	20ea/case
6889		3M™ Exhalation Valve	10ea/case
<b>For 6800 Series Full Facepiece Respirators</b>			
6864		3M™ Center Adapter Assembly comes with 6896 & 7583	20ea/case
6894		3M™ Nose Cup Assembly	5ea/case
6896		3M™ Center Adapter Gasket	20ea/case
6897		3M™ Head Harness Assembly without buckle	5ea/case
6898		3M™ Lens Assembly	5ea/case
6899		3M™ Lens Frame Kit	5ea/case
102		3M™ Spectacle Kit	1ea/kit
6885		3M™ Face Shield Cover	100ea/bag
6886		3M™ Tinted Lens Cover	25ea/case
<b>For 6200 Series Half and 6800 Series Full Facepiece Respirators</b>			
6893		3M™ Inhalation Valve	200ea/case
6895		3M™ Inhalation Gasket	80ea/case
<b>For 7500 Series Half Facepiece Respirators</b>			
7581		3M™ Head Harness Assembly	20ea/case
7582		3M™ Inhalation Valve	10ea/case
7586		3M™ Cartridge Filter Holder	20ea/case
<b>For 7500 Series Half and 6800 Series Full Facepiece Respirators</b>			
6583		3M™ Exhalation Valve	10ea/case

# 3M™ Full Face Respirator FF-400 Series Replacement Parts



Ordering Information - Replacement Parts			
Product No.	Product	Description	Packaging
<b>3M™ FF-400 Series Replacement Parts</b>			
FF-400-01		3M™ Buckle	30ea/case
FF-400-02		3M™ Button	30ea/case
FF-400-03		3M™ Lens Replacement	5ea/case
FF-400-04		3M™ Head Harness	5ea/case
FF-400-05		3M™ Lens Frame Assembly	5ea/case
FF-400-06		3M™ Comfort Cradle Head Harness Attachment	5ea/case
FF-400-07		3M™ Exhalation Valve Assembly	5ea/case
FF-400-08		3M™ Bayonet Assembly	10ea/case
FF-400-09		3M™ Exhalation Valve Cover	5ea/case
FF-400-11		3M™ Nose Cup Assembly	5ea/case
102		3M™ Spectacle Kit	1ea/kit

# 3M™ Half Facepiece Reusable Respirator 6500QL Series

This series of respirator is designed with tough and dirty worksites in mind. Stay productive and protected this series delivers comfort, durability and stability with a firm, lightly textured silicone face seal and strong body construction.



**Using the 6500QL Series Quick Latch Drop Down Feature**

**To open Quick Latch:** Grasp the latch at chin level and pull up.

**To close Quick Latch:** Grasp the facepiece with your thumb on the bottom of the facepiece and your first two fingers on top of the latch. Place the facepiece over your nose and mouth while pushing down on the latch.

**Adjustable Head Harness Assembly**

- Optimum fit and comfort with three-size adjustable head cradle.
- Long-lasting polyester/ spandex straps.

**Low-Profile Design for Compatibility**

- Compatible with most welding/grinding shields.
- Advanced half facepiece design for a wide field of view.

**Comfortable, Durable Silicone Face Seal**

- 3M's lightest silicone facepiece, the 6500QL Respirator Series provides comfort and stability with a soft, stable face seal.
- Resilient silicone material keeps its shape in high-heat environments, which can help extend product life.

**3M™ Cool Flow™ Exhalation Valve with Unique Cover Design**

- Enhanced comfort by reducing heat and moisture.
- Directs exhaled breath and moisture downward.
- Easy positive pressure seal check.

**Quick Latch - Drop-down Mechanism**

- Easy on and off as you move in and out of contaminated areas.
- No need to remove your hardhat or faceshield when lowering or raising your respirator.

Ordering Information - Replacement Parts			
Product No.	Product	Description	Packaging
6582		3M™ Quick Latch Head Harness Assembly	20ea/case
6583		3M™ Exhalation Valve	10ea/case
6893		3M™ Inhalation Valve	200ea/case

# 3M™ Secure Click™ Half Facepiece Reusable Respirator HF-800SD Series

Designed with smart and intuitive features, the 3M™ Secure Click™ Half Facepiece Reusable Respirator HF-800SD Series helps protect workers from particulates and a wide variety of gases and vapours when used with approved 3M™ Secure Click™ filters and cartridges.

### 3M™ Secure Click™ Half Facepiece Reusable Respirator with Speaking Diaphragm

HF-801SD - Small
HF-802SD - Medium
HF-803SD - Large

**New**  
**Speaking Diaphragm**  
Designed to help provide easier communication while working.

**New**  
**Proprietary Silicone Flex-Joint Face Seal**  
Provides a softer feel for more comfort on the wearer's face.

**New**  
**Easy-Adjust Buckle**  
Simple two-way adjustability: pull straps to tighten, squeeze wings to loosen.

**New**  
**Unique Filter & Cartridge Connection**  
Align the connections and push to hear a click.

**New**  
**Push Button Seal Check**  
Provides increased worker confidence that the respirator is being worn properly.

**New**  
**Better Breathability**  
Two dual-flow cartridges on each respirator combine four airflow paths for easier breathing.

**Swept Back Filter & Cartridge Design**  
For compatibility with certain welding and grinding shields.

**Exhalation Valve**  
Helps direct exhaled breath and moisture downward.

Ordering Information - Replacement Parts			
Product No.	Product	Description	Packaging
HF-800-02		3M™ Secure Click™ Inhale & Exhale Valve	10ea/case
HF-800-03		3M™ Secure Click™ Quantitative Fit Test Adapter Kit	1ea/case
HF-800-04		3M™ Secure Click™ Head Harness Assembly	5ea/case
HF-800-05		3M™ Secure Click™ Speaking Diaphragm Assembly	5ea/case

# 3M™ Secure Click™ Half Facepiece Reusable Respirator FF-800 Series

Designed with smart and intuitive features, the 3M Secure Click Full Facepiece Reusable Respirator FF-800 Series helps protect workers from particulates and a wide variety of gases and vapors when used with approved 3M Secure Click filters and cartridges.

**New**  
**Speaking Diaphragm**  
Designed to help provide easy communication.

**New**  
**Unique Filter & Cartridge Connection**  
Snaps into place for intuitive assembly.

**New**  
**Push Button Seal Check**  
Easy way to conduct (positive pressure) seal check prior to each use.

**Large Lens**  
Helps provide wide view for excellent peripheral vision.  
Scotchgard™ protector on lens for improved paint and stain resistance.

**Comfort Cradle**  
Positions respirator more comfortably on head, reducing pressure points and hair pulling.

**Exhalation Valve Cover**  
Helps direct exhaled breath and moisture downward.

3M™ Secure Click™ Full Facepiece Reusable Respirator			
Product #	FF-801 - Small	FF-802 - Medium	FF-803 - Large
3M ID#	70071765732	70071765740	70071765757
SAP ID#	7100261327	7100261326	7100261328

# 3M™ Secure Click™ Dual Cartridge Facepiece Reusable Respirator HF-800 and FF-800 Series



**Hear it:**  
Work with the confidence provided by the all new 3M™ Secure Click™ connection, that filters/cartridges are installed properly. Simply align the connections and push to hear a click.



**Check it:**  
Increase worker confidence that the respirator is being worn properly with the easy, one-touch, user seal check.

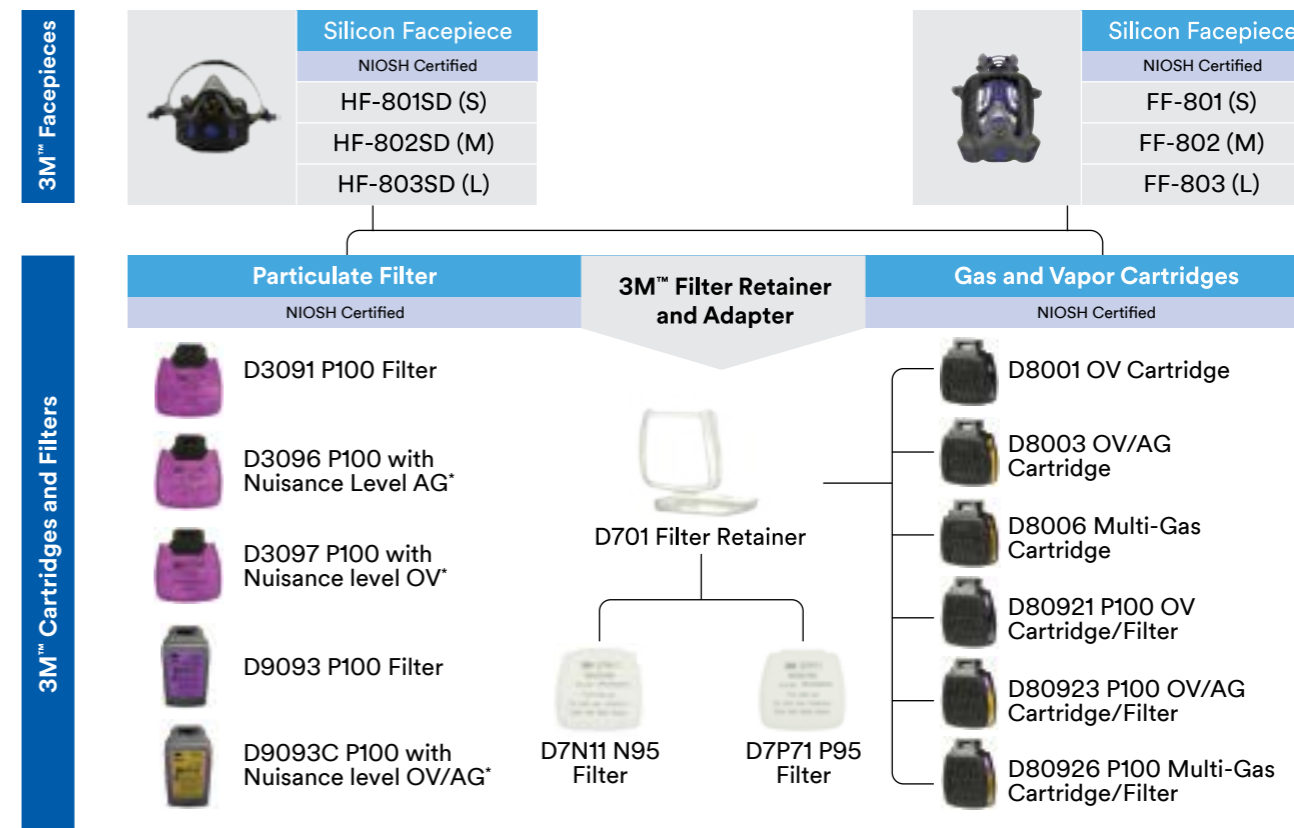


**Feel it:**  
Experience the greater breathability and comfort provided by the world's first quad-flow gas and vapour filter/combination filter system.



**Say it:**  
Utilise the speaking diaphragm designed to help provide easier communication while working.

# Product Matrix Selection: 3M™ Secure Click™ Dual Cartridge Facepiece Reusable Respirator



\* Filter with nuisance level organic vapor / acid gas relief. 3M recommends for relief against nuisance levels less than OSHA PEL or applicable government exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.  
 \*\* Cartridge filter with hydrogen fluoride and nuisance level organic vapor / acid gas relief. 3M recommends for relief against nuisance levels less than OSHA PEL or applicable government exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

Ordering Information - Replacement Parts			
Product No.	Product	Description	Packaging
HF-800-02		3M™ Secure Click™ Inhale & Exhale Valve	10ea/case
HF-800-03		3M™ Secure Click™ Quantitative Fit Test Adapter Kit	1ea/case
HF-800-04		3M™ Secure Click™ Head Harness Assembly	5ea/case
HF-800-05		3M™ Secure Click™ Speaking Diaphragm Assembly	5ea/case
FF-800-01		3M™ Secure Click™ Lens Replacement	5ea/case
FF-800-02		3M™ Secure Click™ Lens Frame	5ea/case
FF-800-03		3M™ Secure Click™ Inhale Valve Assembly	10ea/case
FF-800-04		3M™ Secure Click™ Exhale Valve Cover	5ea/case
FF-800-05		3M™ Secure Click™ Head Harness	5ea/case
FF-800-06		3M™ Secure Click™ Quantitative Fit Test Adapter	1ea/case

## Respirator Select and Service Life Software

3M have designed state of the art software to help make the selection of 3M™ Respirators and filters easier. The user-friendly software also helps users estimate the service life of 3M™ Gas and Vapour Filters.

The 3M™ Select and Service Life Software simplifies and speeds up the selection of 3M™ Respirators through a user-friendly interface that allows the user to enter contaminants and their concentrations.

With the ability to analyse more than 700 different chemicals, and mixtures of chemicals, the software provides a series of prompts to the user to select an appropriate respirator. A record is also provided of the choices made by the user.

Respiratory filters have a limited service life, this is the estimated period of time before breakthrough of a chemical for a specific filter. Respiratory protection standards and/or good practice often require users of chemical filter respirators to implement a filter change schedule based on "objective information or data" to help prevent worker overexposure.

The 3M™ Select and Service Life Software offers the additional capability of estimating the frequency of replacement of 3M™ Gas and Vapour Filters. The software calculates service life based on workplace conditions such as contaminant concentration. This information can then be used to establish a filter change schedule.



3M™ Select Software

3M™ Select Software is designed to help you choose the appropriate 3M™ Respirator for your work environment.



3M™ Service Life Software

The Service Life calculation is designed to help you estimate the service life of selected 3M™ Gas and Vapour Filters.

To use the software simply visit:  
[www.3M.com/SLS](http://www.3M.com/SLS)



## 3M™ Hearing Protection Solutions

3M™ Earmuffs or 3M™ Earplugs can help to make your workers want to wear one and promote compliance as required at all times during exposure.

# The Challenge of Hearing Protection

You can advance your hearing conservation programme with a customised and comprehensive approach to the hearing protection challenge. Implementing a solution that really makes a difference begins with understanding the hazards, the regulation and the factors that impact protection.

## The Regulations

### OSHA Noise Exposure Limit (NEL)

- Employer shall ensure, nobody is allowed to be exposed exceeding:-
  - (A) Daily Noise Exposure Level - 85dB(A)
  - (B) Maximum SPL - 115dB(A) at any time
  - (C) Peak SPL - 140dB(C)

### The Hazards

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

Noise Source	Decibel Level (dB(A))
12-Gauge Shotgun	165 dB Peak
Jet Takeoff	140
Pneumatic Riveter	124
Hammer Drill	114
Chainsaw	110
Rock Concert	105
Motorcycle	100
Tractor/Hand Drill	97
Lawn Mower	90
Vacuum Cleaner	80
City Traffic	78
Conversation	65
Air Conditioning Unit	60
Electrical Transformer	45
Refrigerator Hum	40
Rustling Leaves	30
Watch Ticking	20

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

The Human Factor: Each person 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.

Note :  
 • Daily Personal Noise Dose means cumulative noise exposure of an employee corrected for a normal working day of 8 hours.  
 • If exposed to an excessive noise exceeding NEL, the employer shall take such measures to reduce the excessive noise.

# 3M™ Hearing Protection and Validation Solutions

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

## Fit Test Validation

Integrating hearing protector fit testing into your hearing conservation program benefits everyone from new hires to high-risk workers. The 3M™ E-A-Rfit™ Validation System makes it easier to fit, train and motivate workers and to assess and manage the long-term performance of your hearing conservation program. 3M's broad range of hearing protection devices in a variety of types and styles helps you solve many of the challenges facing workers in various environments.

## Adaptable Hearing Protection

3M delivers a wide range of innovative hearing protectors, making it easy to select the right solution for the job. A variety of types and sizes of earplugs and earmuffs are available, helping your team determine the right fit for each person and the right protection for the application. Our innovative products are designed for comfortable, extended wear, and they can help your team comply with your safety program.

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



### The importance of wearing hearing protection 100% of time exposed.



\* Except for 3M™ E-A-R™ Flexible Fit HA Earplugs that are tested in accordance with ANSI S3.19.

## Earplugs

### Roll Down Earplugs



#### 3M™ E-A-Rsoft™ Yellow Neons™ Earplugs

- Proven size, shape, and foam.
- Moisture-resistant, dermatologically-safe foam is not irritating.
- Slow recovery foam provides comfort with low pressure.
- NRR 33 dB.

Product	Description	Packaging
312-1250	3M™ E-A-Rsoft™ Yellow Neons™ Earplugs 312-1250, Uncorded, in Poly Bag	200 pairs/box, 10 boxes/case
311-1250	3M™ E-A-Rsoft™ Yellow Neons™ Earplugs 311-1250, Corded, in Poly Bag	200 pairs/box, 10 boxes/case
393-2000-50	Earplug Test Probed	50 pairs



#### 3M™ 1000 Foam Earplugs

- Tapered design to fit the ear canal comfortably.
- Smooth, dirt resistant surface for hygiene.
- Can be combined with ear muffs for additional protection.
- Soft cloth cord for additional convenience and to help prevent loss of earplugs (1110 only).
- NRR 29 dB.

Product	Description	Packaging
1100	3M™ Uncorded Earplugs, in Poly Bag	200 pairs/box, 5 boxes/case
1110	3M™ Corded Earplugs, in Poly Bag	100 pairs/box, 5 boxes/case
393-2010-50	Earplug Test Probed	50 pairs

### Reusable Earplugs



#### 3M™ E-A-R™ UltraFit™ Earplugs

- Reusable earplugs.
- Proprietary flange design gives the most comfortable fit of any reusable plug.
- Conforms to oval shape of ear.
- Washable, promotes worker hygiene.
- No rolling or touching plug portion during insertion.
- NRR 25 dB.

Product	Description	Packaging
340-4004	3M™ E-A-R™ UltraFit™ Corded Earplugs, in Poly Bag	100 pairs/box, 4 boxes/case
340-4002	3M™ E-A-R™ UltraFit™ Corded Earplugs, in Carry Case	50 pairs/box, 4 boxes/case
393-2001-50	Earplug Test Probed	50 pairs

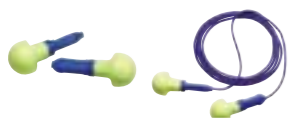


#### 3M™ Corded Reusable Earplugs 1271

- Washable, reusable. Ideal for dusty, dirty situations.
- Soft elastic triple flanged design to securely fit ear canal.
- Includes storage case which keeps the plugs clean and protected.
- NRR 24 dB.

Product	Description	Packaging
1271	3M™ Corded Reusable Earplugs, in Carry Case	50 pairs/box, 5 boxes/case
393-2016-50	Earplug test probed	50 pairs

### Push-Ins™ Earplugs



#### 3M™ E-A-R™ Push-Ins™ Earplugs

- Blue stem makes fitting and removal cleaner and easier.
- No roll down of the foam required prior to insertion - all it takes is a gentle push to insert.
- Available with or without cords to suit user preference.
- NRR 28 dB.

Product	Description	Packaging
318-1000	3M™ E-A-R™ Push-Ins™ Earplugs, Uncorded, in Poly Bag	100 pairs/box, 4 boxes/case
318-1001	3M™ E-A-R™ Push-Ins™ Earplugs, Earplugs, Corded, in Poly Bag	100 pairs/box, 4 boxes/case

## 3M™ Peltor™ Earmuffs



### 3M™ Peltor™ H6 Series - Low Profile Earmuffs

The H6 Series is specially engineered for high comfort and continuous wear. They provide effective noise protection for daily exposures up to 105dB(A). The foam sealing rings provide a quality noise seal with low pressure for all day wearer comfort.

Product	Description
H6A	3M™ PELTOR™ Optime™ 95 Earmuffs, Over-the-Head, NRR 21dB
H6B	3M™ PELTOR™ Optime™ 95 Earmuffs, Neckband, NRR 21dB
H6P3E	3M™ PELTOR™ Optime™ 95 Earmuffs, Hard Hat Attached, NRR 21dB
HY51	Replacement Hygiene Kit
393-3001-2	Earmuff Test Probed



### 3M™ Peltor™ H9 Series - Select Performance Earmuffs

The H9 Series offers versatile protection and is very lightweight providing high wearer comfort. It combines a low profile with generous inner depth which makes it easy to combine with other equipment, allowing the ear to rest comfortably. H9 Series earmuffs are your choice for both short and long duration tasks. The wide, comfortable sealing rings are filled with a unique combination of fluid and foam, which gives optimum sealing and low contact pressure at the same time. It is ideal for use in environments with moderate industrial noise, such as workshops, sheetmetal shops and printing works, but also suitable outdoors, such as lawn mowing or in connection with hobby and leisure activities.

Product	Description
H9A	3M™ PELTOR™ Optime™ 98 Earmuffs, Over-the-Head, NRR 25 dB
H9P3E	3M™ PELTOR™ Optime™ 98 Earmuffs, Hard Hat Attached, NRR 23 dB
HY51	Replacement Hygiene Kit
393-3001-2	Earmuff Test Probed



### 3M™ Peltor™ H7 Series - Deluxe Earmuffs

The H7 Series has been developed for demanding noisy environments with increased low frequency attenuation. The sealing rings are filled with a unique combination of liquid and foam. The result is an optimum seal with low contact pressure, which provides agreeable comfort even during long-term use. The H7 Series is a suitable choice for typical environments with substantial industrial noise or construction machinery, airports and agricultural work.

Product	Description
H7A	3M™ PELTOR™ Optime™ 101 Earmuffs, Over-the-Head, NRR 27 dB
H7B	3M™ PELTOR™ Optime™ 101 Earmuffs, Neckband, NRR 26 dB
H7P3E	3M™ PELTOR™ Optime™ 101 Earmuffs, Hard Hat Attached, NRR 24 dB
HY7	Replacement Hygiene Kit
393-3001-2	Earmuff Test Probed



### 3M™ Peltor™ H10 Series - Extreme Performance Earmuffs

The H10 Series is a high performance hearing protector and has been developed for use in extremely noisy environments. The protection is based on a technology with a double casing minimizing resonance in the casing giving optimum high-frequency attenuation. An acoustic connection between the inner and outer casings provides maximum low-frequency attenuation. The sealing rings are broad and filled with soft plastic foam for the best fit and low contact pressure. The H10 Series stands for effective protection and highest comfort for the wearer. This product is also available in neon yellow for workers who need hearing protection to be extra visible – on road construction sites, airports or other high-risk workplaces.

Product	Description
H10A	3M™ PELTOR™ Optime™ 105 Earmuffs, Over-the-Head, NRR 30 dB
H10B	3M™ PELTOR™ Optime™ 105 Earmuffs, Neckband, NRR 29 dB
H10P3E	3M™ PELTOR™ Optime™ 105 Earmuffs, Hard Hat Attached, NRR 27 dB
HY54	Replacement Hygiene Kit
393-3004-2	Earmuff Test Probed

# 3M™ Peltor™ X Series Earmuffs

## A new standard

Design, Comfort and Attenuation Techniques. 3M developed the new 3M™ Peltor™ X Series Earmuffs based on these three pillars. In the addition to simplicity of use and ease of identification, the new range earmuffs are now the new reference point in terms of over-the-ear protection.



### Design

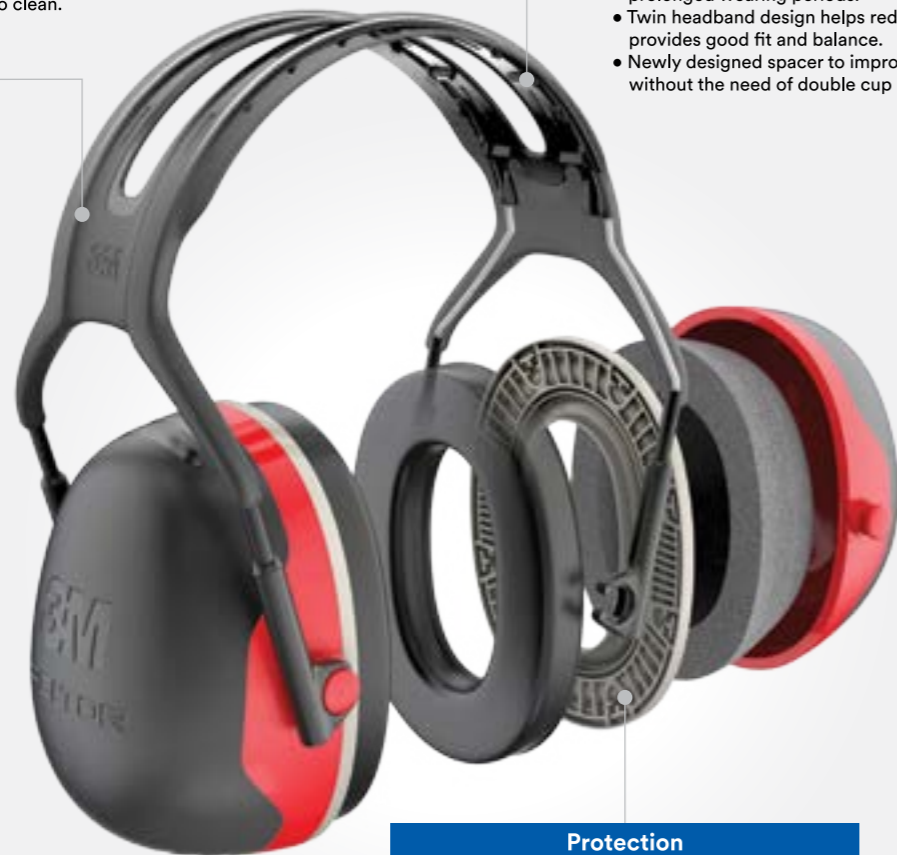
- Protected wire headband - building on the success design of the current 3M™ Peltor™ Optime™ range of earmuff.
- Light-weight dual mould cups with maximum space inside to help minimize heat and moisture build-up.
- Integrated design for more robustness.
- Color coded for ease of selection.
- Electrical insulated headband.
- Easy to clean.

### Comfort

- Easy to adjust headband.
- Wire headband with constant pressure over prolonged wearing periods.
- Twin headband design helps reduce heat build-up, provides good fit and balance.
- Newly designed spacer to improve attenuation without the need of double cup design.

### Protection

- Streamlined cups without compromising attenuation.
- Compatible with a range of 3M™ Eyewear and 3M™ Respirators (validated by internal testing).
- New smart sealing ring.



## 3M™ Peltor™ X1A Earmuffs

- Wire headband offers consistent pressure over prolonged wearing periods
- Features an electrically insulated (dielectric) wire headband\*\*
- Earcup pivot points tilt for optimum comfort and efficiency
- Replaceable ear cushions and foam liners (3M™ Peltor™ Hygiene Kit HYX1)



Product	Description
X1A	3M™ PELTOR™ X Series, Over-the-Head Earmuffs, NRR 22 dB
X1P5E	3M™ PELTOR™ X Series, Hard Hat-Attached Earmuff, NRR 21 dB
HYX1	Replacement Hygiene Kit
393-3001-2	Earmuff Test Probed

## 3M™ Peltor™ X4A Earmuffs

- Extremely slim and lightweight earcups provide excellent compatibility when used with other 3M personal protection products.
- New specially-formulated foam earcup inserts and cushions help boost the noise-blocking capability of these comfortable, lightweight earmuffs.
- Features an electrically insulated (dielectric) wire headband\*\*
- Colour coded fluorescent yellow-green for excellent visibility.



Product	Description
X4A	3M™ PELTOR™ X Series, Over-the-Head Earmuffs, NRR 27 dB
X4P5E	3M™ PELTOR™ X Series, Hard Hat-Attached Earmuff, NRR 25 dB
HYX4	Replacement Hygiene Kit
393-3005-2	Earmuff Test Probed

## 3M™ Peltor™ X5A Earmuffs





- New groundbreaking technology allows 3M™ Peltor™ Earmuffs to provide very high noise reduction in both standard headband and hard hat-attached models.
- Unique attenuation as result of optimum combination of specially-formulated foam featured in the earcups, cushions and the innovative spacer and cup design.
- Despite the larger earcups, the X5 remains relatively lightweight with excellent balance and comfort.
- Features an electrically insulated (dielectric) wire headband\*\*



Product	Description
X5A	3M™ PELTOR™ X Series, Over-the-Head Earmuffs, NRR 31 dB
X5P5E	3M™ PELTOR™ X Series, Hard Hat-Attached Earmuff, NRR 31 dB
HYX5	Replacement Hygiene Kit
393-3005-2	Earmuff Test Probed

\*\* Electrically insulated. The bracket arms of helmet attachment earmuffs are made of non-conductive (sometimes referred to as 'dielectric') material whilst the metal components of the attachment mechanisms are covered in non-conductive material. The metal wire of the headband earmuffs are covered in a non-conductive material. These products were found to be electrically insulated, withstanding a voltage up to 1,2 kV, at an external laboratory against a modified test method based on EN 397:2012 under dry conditions. The user must determine the overall suitability of this product for the intended application taking into account any hazards other than noise for which this product is tested and approved.

# 3M™ Hearing Protection Product Reference Guide

Category	Product	Neck Corded Option	Moisture Resistant	Slow Recovery Foam	Poly Bag	Hi-Viz	Users wears glove or has dirty hands	Single Number Rating (NRR)
Roll Down Foam Disposable Earplugs	 <p>E-A-Rsoft™ Yellow Neons™ Earplugs</p>	•		•		•		33 dB
	 <p>1100 / 1110 Earplugs</p>	•		•				29 dB
Reusable Earplugs	 <p>UltraFit™ Earplugs</p>	•	•		•		•	25 dB
	 <p>1271 Earplugs</p>	•	•				•	24 dB







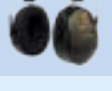



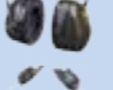







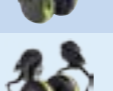

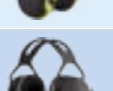



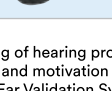
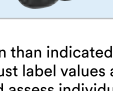
# 3M™ Hearing Protection Product Reference Guide

Category	Product	Neckband	Headband	Helmet attached	Hi-Viz	Di-electric	Slim line cup	Twin headband design	Noise Reduction Rating (NRR)
Earmuffs	 <p>Peltor™ Optime™ 95, H6 Earmuffs</p>	•	•	•					Neckband 21 dB Helmet attachment 21 dB Headband 21 dB
	 <p>Peltor™ Optime™ 98, H9 Earmuffs</p>		•	•					Helmet attachment 23 dB Headband 25 dB
	 <p>Peltor™ Optime™ 101, H7 Earmuffs</p>	•	•	•					Neckband 26 dB Helmet attachment 24 dB Headband 27 dB
	 <p>Peltor™ Optime™ 105, H10 Earmuffs</p>	•	•	•					Neckband 29 dB Helmet attachment 27 dB Headband 30 dB
	 <p>Peltor™ X1 Earmuffs</p>		•	•		•	•	•	Helmet attachment 21 dB Headband 22 dB
	 <p>Peltor™ X4 Earmuffs</p>		•	•	•	•	•	•	Helmet attachment 25 dB Headband 27 dB
	 <p>Peltor™ X5 Earmuffs</p>		•	•		•		•	Helmet attachment 31 dB Headband 31 dB

\* Di-electric only available on headband

# ANSI to CE Standards

Current ANSI S3.19 Certified		CE Certified Alternative	
Model	Noise Reduction Rating (NRR)	Model	Single Number Rating (SNR)*
1100 	29 dB	1100 	35 dB
1110 	29 dB	1110 	35 dB
1270 	24 dB	1271 	26 dB
1271 	24 dB		
<b>Yellow Neons™</b> 311-1250 	33 dB	<b>Yellow Neons™</b> ES-01-005 311-4266 	34 dB
<b>Yellow Neons™</b> 312-1250 	33 dB		
<b>TaperFit™</b> 312-1219 	32 dB		
<b>TaperFit™</b> 312-1223 	32 dB		
<b>UltraFit™</b> 340-4004 	25 dB	<b>UltraFit™</b> UF-01-000 	29 dB
	25 dB		
<b>UltraFit™</b> 340-4002 	25 dB	<b>UltraFit™</b> UF-01-100 	29 dB
	25 dB		

Current ANSI S3.19 Certified		CE Certified Alternative	
Model	Noise Reduction Rating (NRR)	Model	Single Number Rating (SNR)*
<b>Optime™ 95</b> H6A 	21 dB	<b>Optime™ I</b> H510A 	27 dB
<b>Optime™ 95</b> H6P3E 	21 dB	<b>Optime™ I</b> H510P3E 	26 dB
<b>Optime™ 98</b> H9A 	25 dB	<b>Optime™ II</b> H520A 	31 dB
<b>Optime™ 98</b> H9P3E 	23 dB	<b>Optime™ II</b> H520P3E 	31 dB
<b>Optime™ 101</b> H7A 	27 dB	<b>Optime™ III</b> H540A 	34 dB
<b>Optime™ 105</b> H10A 	30 dB		
<b>Optime™ 101</b> H7P3E 	24 dB	<b>Optime™ III</b> H540P3E 	33 dB
<b>Optime™ 105</b> H10P3E 	27 dB		
<b>Optime™ 105</b> H10B 	29 dB	<b>Optime™ III</b> H540B 	34 dB
X1A 	22 dB	X1A 	27 dB
X1P5E 	21 dB	X1P5E 	27 dB
X4A 	27 dB	X4A 	33 dB
X4P5E 	25 dB	X4P5E 	32 dB
X5A 	31 dB	X5A 	37 dB
X5P5E 	31 dB	X5P5E 	36 dB

\*3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the SNR due to variation in hearing protector fit, fitting skill and motivation of the user. Refer to your applicable regulations for guidance on how to adjust label values and estimate attenuation. In addition, 3M™ E-A-Rfit™ Dual-Ear Validation System can support your fit testing needs for improved wear, compliance and assess individual Personal Attenuation Rate (PAR).

# 3M™ E-A-Rfit™ Dual-Ear Validation System

The E-A-Rfit Dual-Ear Validation System measures the effectiveness of 3M hearing protection from inside an employee's ear, providing accurate, quantitative results. Test administrators can simultaneously check both ears, so they will have more time to educate employees on the importance of fit and compliance.

For more information on this service, please contact your 3M Personal Safety Sales Representative. NOTE: If your customers wish to have someone at their company trained to become a certified E-A-Rfit Technician so they can service their own employees, please contact a 3M Personal Safety Sales Representative for more information.

## The right fit test. Right now.

- Earmuff and earplug testing capability.
- Tests at 7 frequencies from 125Hz to 8000Hz.
- Science-based objective, quantitative testing

## The challenge of hearing protection.

### How do you know if your workforce is protected?

Protecting workers from hazardous noise levels is an ongoing challenge for many organizations. In fact, according to the U.S. Bureau of Labor Statistics (2010)<sup>\*</sup>, the most commonly recorded occupational health issue in the manufacturing sector is permanent hearing loss. The success of your safety program depends on many factors and requires more than just offering hearing protection.

### Individual Fit Testing Using F-MIRE

Using F-MIRE (Field Microphone-In-Real-Ear) technology, the 3M™ E-A-Rfit™ Dual-Ear Validation System generates a Personal Attenuation Rating (PAR) in under 5 seconds for both ears, taking into account the 7 standard measured testing frequencies.

- Measures how well 3M's most popular earplugs and earmuffs perform.
- Delivers a quantitative measurement of personal noise reduction for each employee.
- Can help identify whether or not the employee has adequate protection.

### The Right Protection for Your Facility

Get results you can trust. The 3M™ E-A-Rfit™ Dual-Ear Validation System measures the effectiveness of the hearing protection from inside the employee's ear, providing accurate, quantitative results. And because you can simultaneously test both ears, you'll have more time to educate employees on the importance of fit and compliance.



- 1 Fit**  
Have the employee insert their earplugs or put on their earmuffs.
- 2 Test**  
Connect to microphones and begin speaker test sound.
- 3 Assess**  
Use PAR to customize hearing protector selection.

<sup>\*</sup> Source: <http://www.cdc.gov/niosh/docs/2010-136/pdfs/2010-136.pdf>

## Employee-to-Employee Variability

To make sure they are getting the protection they need, you need to know the Personal Attenuation Rating (PAR) of every employee. The highest-NRR earplug or earmuff won't provide the expected protection if it doesn't fit right or isn't used right. Once you know each employee's number, you'll be on the way to yours: 100% confidence in your hearing conservation program.

Every employee is different. Every job is different. Every ear is different. Finding each employee's number will help you validate compliance and have assurance that their hearing protection is sufficient.

## Program Documentation

3M™ E-A-Rfit™ Dual-Ear Validation System testing sessions produce a validation document that can be kept in each employee's file, providing documentation of your commitment to training and compliance with OSHA hearing conservation program guidelines.

- Features easy-to-read test results for both ears as well as testing history.
- Creates digital and printable reports for both employee and company records.
- Provides a direct measurement of noise reduction in decibels.
- Provides an estimate of test variability.



Fail - 10 dB	Pass - 29 dB
<p>A "fail" result means the hearing protection is either not fitted properly or is the wrong type or size for the worker's ear canal.</p> <p><small>NOTE: Finding out each employee's PAR is the first step to a successful conservation program. Once a worker's PAR is measured, you can determine if they're using the right hearing protection and ensure they're trained on using it properly.</small></p>	<p>A "pass" result means the hearing protection fits properly and provides sufficient protection for the worker's specific job.</p>



**EARfit**



# Communication Solutions

Close up or far away the 3M™ 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 safe way to be heard, and get things done.

### Work never sounded this good.

There was a time when wearing hearing protectors meant being isolated and out of contact. Those days are over. Today, the 3M™ PELTOR™ Brand of Products offers communication solutions that not only make your working day safer and more efficient, but also much smarter.

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. 3M Communication Solutions Products make it possible for your team to communicate more easily in high-noise areas.

Communication devices are key to both safety and productivity. Integrating a 3M Communication Solution in your work environment will help you communicate more clearly with co-workers while reducing your exposure to potential hazardous noise. Feel free to contact us to discuss a solution to meet your specific needs.

### Just what you want to hear.

Active control of incoming sounds from your surroundings lets you hear alarm signals and machines, while harmful levels of noise are filtered out by smart electronics.

### Music to your ears.

Communication with people around you involves using our level-dependent function for ambient listening systems. For longer distances, you have built-in two-way radios and Bluetooth® Connections to mobile phones. Meanwhile all communication options can also be combined with a sound system so you can listen to your favourite streamed music or pod radio, with first-class sound quality.





# Situational awareness, enhanced attention.

You have two great reasons to protect your hearing – your ears. The 3M™ Peltor™ ProTac™ III Headset with level-dependent function for ambient listening helps you focus on your work and communicate with colleagues in noisy environments, without removing the hearing protection. Stereo feedback will allow you to hear and better determine direction of alarms, warning cries, backing vehicles and so on.



3M™ Peltor™ ProTac™ III Headset



3M™ Peltor™ ProTac™ III Slim Headset



Hearing protection with level-dependent function for ambient listening



Hearing protection with external audio input

## Hearing protection and situational awareness

Technology is on your side in every situation. Sudden loud or sharp noises are attenuated instantly, helping protect your hearing from potentially harmful noise levels. Constant rumbling and other potentially harmful noises are reduced to a level below 82dB, but you can still speak normally and make yourself heard. The ambient sound level can be adjusted in five steps to make sure warning signals, alarms and other sounds in machines and processes can be heard. The ProTac™ III Slim Headset is a variety with a slimmer cup for less-noisy environments.

In combination with a cell-phone, the new ProTac III Headset can also be your lifeline to the world. Connect to the 3.5 mm jack on the headset and you receive phone signals and calls right to your ears. You can also connect a two-way radio if you need one. You can expect an intuitive adaptation to every situation, thanks to smart technology and easy control. Your ProTac™ III Headset unit has a rugged design with dual shells. The electronics are protected from moisture and sweat, from both the inside and the outside. Smart technology, practical design and user friendly functions will help you weather rough days in the field.



### Headset Models

Article number	Description	Legacy 3M ID	SAP ID
MT13H220A	3M™ PELTOR™ ProTac™ III Slim Headset, black, headband	UU004637789	7100088456
MT13H220P3E	3M™ PELTOR™ ProTac™ III Slim Headset, black, helmet attachment	UU004637771	7100088455
MT13H221A	3M™ PELTOR™ ProTac™ III Headset, black, headband	UU004690522	7100088424

### Accessories

Article number	Description	Legacy 3M ID	SAP ID
HY220	3M™ PELTOR™ HY220 Hygiene Kit	UU008049353	7100101874
FL6CE/1	3M™ PELTOR™ FL6CE/1 3.5 mm Cable	XH001676952	7000108359
HY100A	3M™ PELTOR™ HY100A CLEAN HYGIENE PAD	XH001651351	7100064410

### Attenuation

MT13H220A 3M™ PELTOR™ ProTac™ III Slim Headset  
SNR=26 dB H=29 dB M=23 dB L=17 dB



MT13H220P3E 3M™ PELTOR™ ProTac™ III Slim Headset  
SNR=25 dB H=29 dB M=22 dB L=16 dB



MT13H221A 3M™ PELTOR™ ProTac™ III Headset  
SNR=32 dB H=34 dB M=29 dB L=22 dB





# When it matters the most...

The new CH-3 headset will bring hearing protection and communication in noisy environments into a new level of performance. Communication has never been easier.

## New design for enhanced comfort during long hours of use

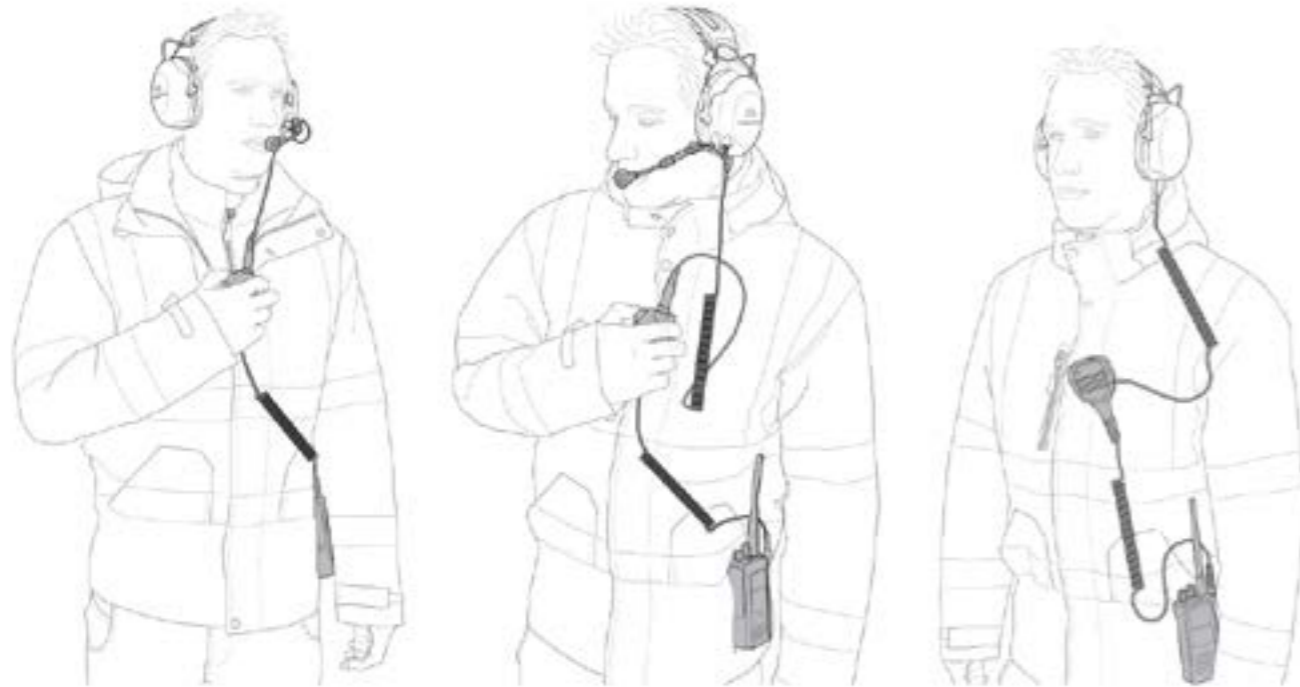
Newly designed dual mold cups give a modern and slim look together with the new bright yellow color for enhanced visibility. Cup size is reduced while still retaining high attenuation and comfortable space for ears. The reduced size also contributes to less weight which improves comfort during long hours of use.

We have designed an all new headband with improved flexibility to better fit different types of head shapes. Headband cable is easily detachable from the headband for easy replacement.



### Flexible and Adaptable

The CH-3 and FLX2 platform allows you to pair your protective communication needs with your existing handheld devices.



### 3M™ PELTOR™ CH-3 Headset

The CH-3 Headsets are intended to be plugged into an external PTT adapter that allows for convenient placement of the Push-To-Talk button, or can also be connected to a vehicle intercom system.



MT74H52A-110  
NRR\* 26 dB



MT74H52P3E-110  
NRR\* 24 dB



MT74H52B-110  
NRR\* 24 dB

### 3M™ PELTOR™ CH-3 Headset with PTT

The CH-3 Headsets with an integrated Push-To-Talk button on the earcup allow for a direct connection to your handheld communication device.



MT74H52A-111  
NRR\* 26 dB



MT74H52P3E-111  
NRR\* 24 dB



MT74H52B-111  
NRR\* 24 dB

### 3M™ PELTOR™ FLX2 Cables

#### FLX2 Cables

Article number	Description	Headset	Article number	Description	Headset
FLX2-63-90	Motorola APX/XPR	-111	FLX2-107-90	Kenwood Multi-pin	-111
FLX2-21	Motorola CP200/2-pin	-111	FLX2-35	Icom 2-Pin Angled	-111
FLX2-09	Motorola M9 Plug	-111	FLX2-44	Icom Multipin 58	-111
FLX2-32	Motorola HT Series	-111	FLX2-64	Icom F34/64	-111
FLX2-65	Motorola ax500/ax600	-111	FLX2-111	Hytera PD7 Series	-111
FLX2-18	Motorola XTS Series	-111	FLX2-101	Sepera 800/900	-111
FLX2-36	Kenwood 2-pin	-111	FLX2-28	2.5mm	-111



\* See Important note.

\*Note: U.S. EPA specifies the NRR as the measure of hearing protector noise reduction. However, 3M makes no warranties as to the suitability of the NRR for this purpose. 3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. It is recommended that the NRR be reduced by 50% to better estimate typical protection.

# 3M™ SecureFit™ Protective Eyewear

Performance. Style. Comfort.



Protecting your vision on the job is important. But it doesn't have to mean sacrificing style or comfort. Get eyewear that performs – and looks good doing it. Featuring a comfortable fit and a sleek profile designed to work with other personal protective equipment, 3M™ SecureFit™ Protective Eyewear helps keep you safe and comfortable on the job.



The science of comfort.



We collected data on head and face shapes around the world to develop a patented design that self-adjusts to individual head sizes and shapes. This design provides the same level of comfort to individuals across a diverse workforce.

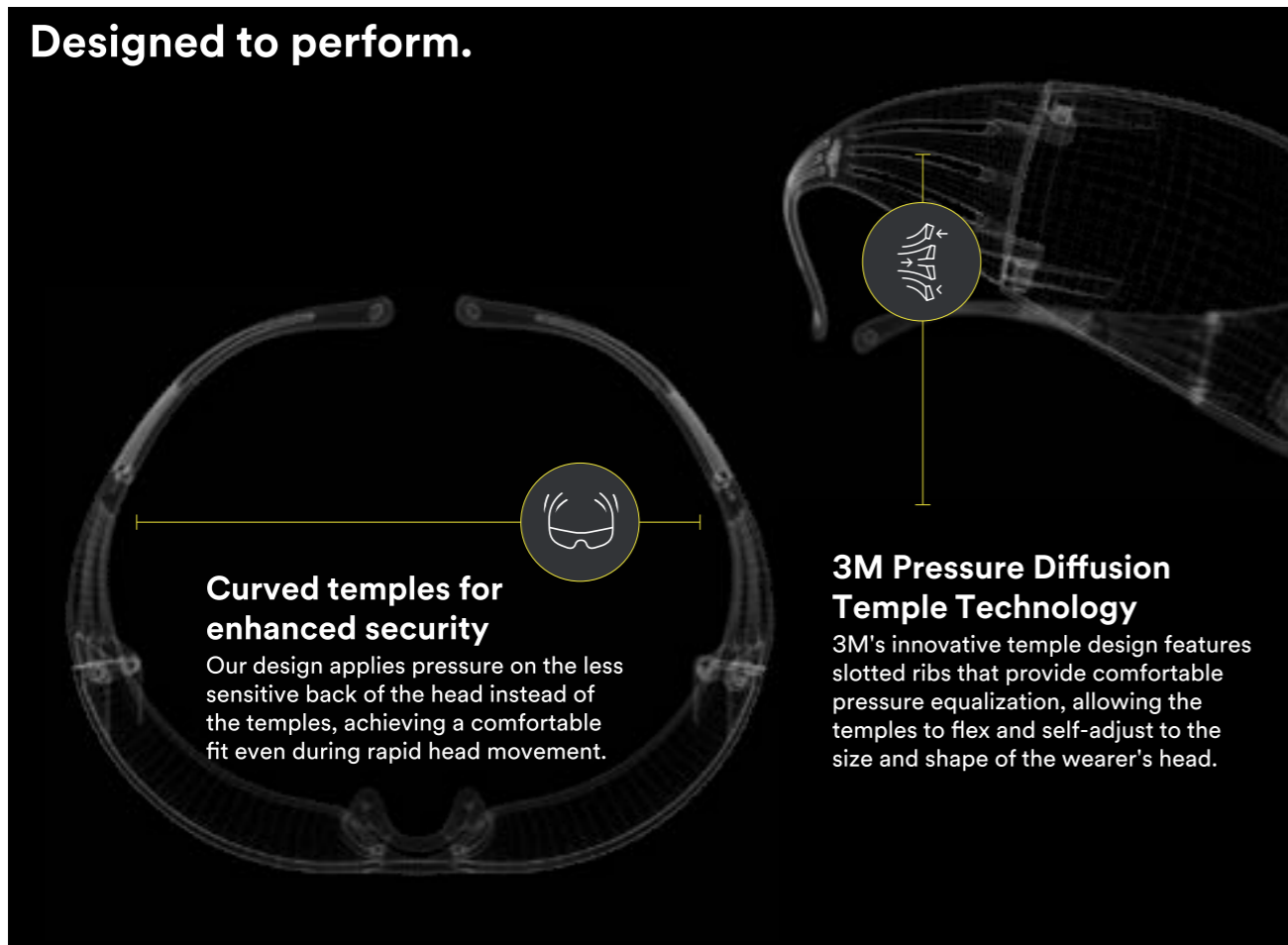
Regardless of head size, from small heads to large heads, our 3M Pressure Diffusion Temple Technology is designed to provide a secure and comfortable fit for an extended period of wear time.



# 3M™ Protective Eyewear

3M™ Protective Eyewear Products are designed with your safety in mind. 3M's dedication to quality ensures all 3M protective eyewear products meet both physical and optical requirements of the ANSI Z87.1 Standard as High Impact Protectors.

## Designed to perform.



## The benefits are clear.

Fogged lenses can be frustrating and dangerous. But 3M™ SecureFit™ Protective Eyewear models featuring 3M™ Scotchgard™ Protector Anti-Fog Coating can help workers see clearly for longer, thanks to an active ingredient that bonds the coating to the lens.



### 3M™ Scotchgard™ Protector Anti-Fog Coating

- Resist fogging longer than traditional anti-fog coating through up to 25 washings with water.
- Helps provide scratch resistance in tough work environments.
- Designed for working in challenging situations, such as hot and humid conditions, indoor/outdoor work, physically demanding tasks and climate-controlled areas.
- The coating can be disinfected with diluted bleach soaking or alcohol wipes without losing its anti-fog performance.

\* Based on 3M internal testing per EN168 test method when compared with traditional anti-fog coatings.

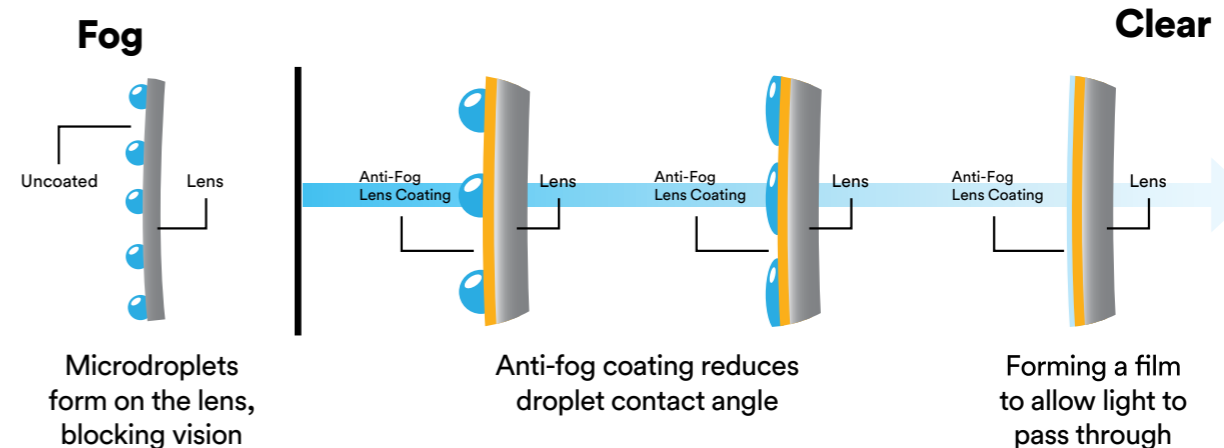
## Helps workers see clearly longer

See the science behind 3M™ Anti-Fog Coatings.



Fogging on protective eyewear lenses can obscure a workers field of vision, potentially leading to a workplace injury due to poor visibility. Excessive fogging can also prompt a worker to remove their protective eyewear, leaving eyes exposed to workplace hazards.

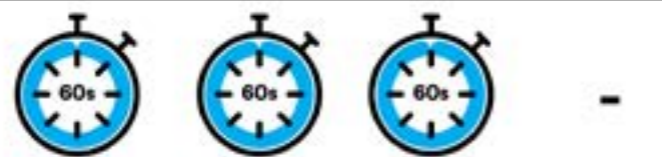
## How do anti-fog coatings work?





**Anti-fog Performance**

Resistance to fogging during first use



**Anti-fog Performance**

After soaking in water for 1-2 hours\*

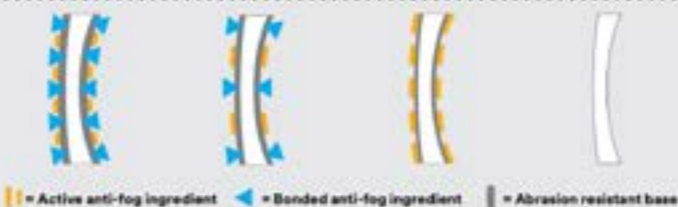


**Anti-Scratch Performance**

After falling sand abrasion\*\*



**Coating Coverage/ Application to Lens**



**Wash Durability**

with limited change to performance



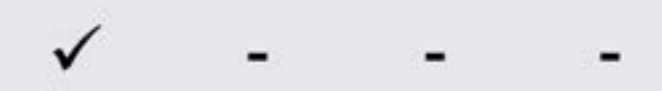
**Work Environments**



**Meets ANSI/ISEA Z87.1 "X" and EN166 "N" Anti-Fog Requirements**



**Meets EN166 "K" Resistance to Abrasion by Fine Particles**



\* as per ANSI Z87.1/EN166 test protocol  
\*\* as per EN166 test protocol

# 3M™ SecureFit™ Protective Eyewear

## 300 Series

When it comes to eye protection, the right fit makes all the difference. The 3M™ SecureFit™ Protective Eyewear 300 Series features an adjusted lens angle and soft nose bridge designed to help accommodate tall cheekbone structure and low nose bridge height. Proprietary 3M Pressure Diffusion Temple Technology - a scientific advancement that helps diffuse pressure over the ear, enhancing frame temple comfort while not compromising security of fit. Complies to ANSI Z87.1.



Clear



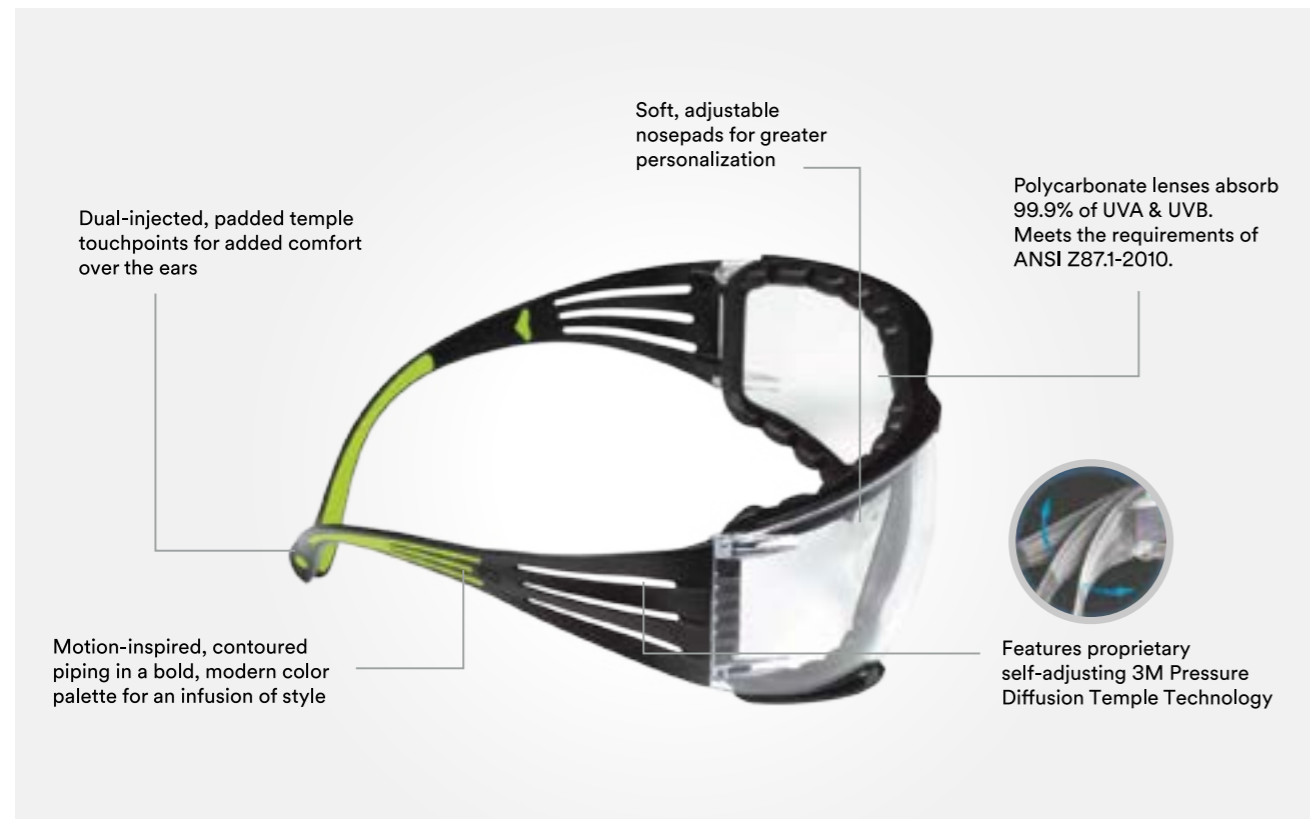
Gray

Model	Product Description	Lens	Coating Performance
SF301AF	3M™ SecureFit™ Protective Eyewear, Clear Anti-Fog Coating Lens	Clear	AF
SF302AF	3M™ SecureFit™ Protective Eyewear, Gray Anti-Fog Coating Lens	Gray	AF
SF301SGAF-LBL	3M™ SecureFit™ Protective Eyewear, Ice Blue Temple, Clear 3M™ Scotchgard™ Protector Anti-Fog Coating Lens	Clear	3M™ Scotchgard™ AF
SF302SGAF-LBL	3M™ SecureFit™ Protective Eyewear, Ice Blue Temple, Gray 3M™ Scotchgard™ Protector Anti-Fog Coating Lens	Gray	3M™ Scotchgard™ AF

# 3M™ SecureFit™ Protective Eyewear

## 400 Series

The experience of putting on 3M™ SecureFit™ Protective Eyewear 300 Series is game-changing. Now, the new 3M™ SecureFit™ Protective Eyewear 400 Series enhances comfort and security of fit with soft adjustable nose pads and dual injected temples. Complies to ANSI Z87.1.



The 400 Series features 3M Pressure Diffusion Temple Technology, soft adjustable nose pads & dual-injected temples

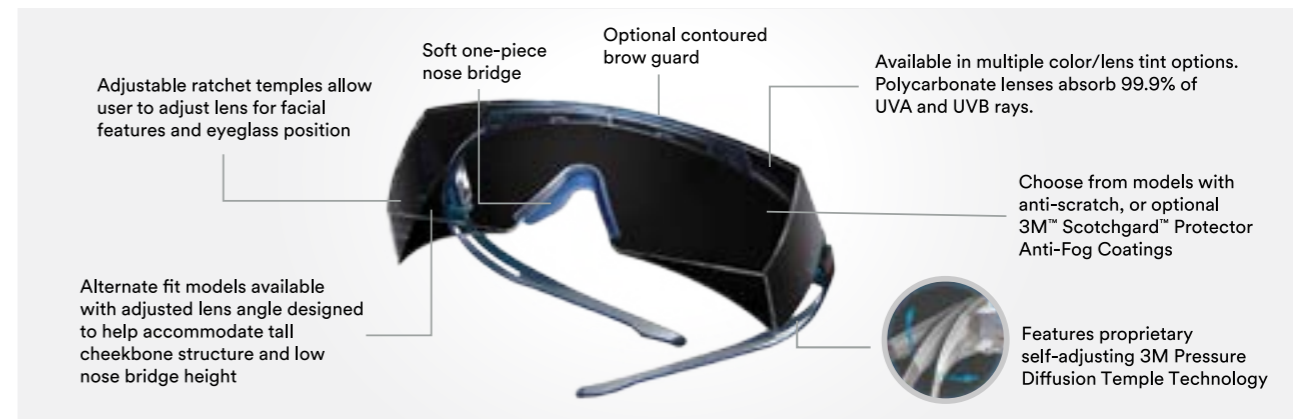


Model	Product Description	Lens	Coating Performance
SF401AF	3M™ SecureFit™ Protective Eyewear, Clear Anti-Fog Coating Lens	Clear	AF
SF402AF	3M™ SecureFit™ Protective Eyewear, Gray Anti-Fog Coating Lens	Gray	AF
SF410AS	3M™ SecureFit™ Protective Eyewear, Indoor / Outdoor Anti-Scratch Coating Lens	Indoor/Outdoor	AS
SF401AF-FM	3M™ SecureFit™ Protective Eyewear, with Foam Gasket, Clear Anti-fog Coating Lens	Clear	AF
SF-FOAM*	3M™ SecureFit™ Replacement Foam Gasket	-	-

# 3M™ SecureFit™ Protective Eyewear

## 3700 Series

3M™ SecureFit™ 3700 Series is designed to offer eye protection with all-day wearability for workers with protection eyeglasses. Since prescription glasses may not be anti-fog coated, you can choose between a standard anti-scratch coating or 3M™ Scotchgard™ Protector Anti-Fog Coating.



Product ID: SF3701ASGAF-BLU  
 Lens: Clear  
 Frame: Blue/Blue  
 Coating: 3M™ Scotchgard™ Protector Anti-Fog



Product ID: SF3702ASGAF-BLU  
 Lens: Gray  
 Frame: Blue/Blue  
 Coating: 3M™ Scotchgard™ Protector Anti-Fog



Product ID: SF3703ASGAF-GRN  
 Lens: Amber  
 Frame: Green/Green  
 Coating: 3M™ Scotchgard™ Protector Anti-Fog

Model	Product Description	Lens	Coating Performance
SF3701ASGAF-BLU	3M™ SecureFit™ 3700 Series, Blue/Blue, Clear OTG 3M™ Scotchgard™ Protector Anti-Fog Coating Lens	Clear	3M™ Scotchgard™ AF
SF3702ASGAF-BLU	3M™ SecureFit™ 3700 Series, Blue/Blue, Gray OTG 3M™ Scotchgard™ Protector Anti-Fog Coating Lens	Gray	3M™ Scotchgard™ AF
SF3703ASGAF-GRN	3M™ SecureFit™ 3700 Series, Green/Green, Amber OTG 3M™ Scotchgard™ Protector Anti-Fog Coating Lens	Amber	3M™ Scotchgard™ AF

# 3M™ Value Safety Eyewear

## Virtua™ Series



### 3M™ Virtua™ Sport Asian Fit Eyewear

Sporty styling for better compliance.

- Wraparound design provides extended eye protection and unobstructed viewing
- Lightweight design weighs less than an ounce for comfort
- Polycarbonate lenses absorb 99.9% UVA and UVB
- Meets the requirements of ANSI Z87.1-2015

Model	Description	Lens	Lens Coating
11326-00000-20	3M™ Virtua™ Protective Eyewear, Clear Hard Coat Lens	Clear	Hard Coat
11328-00000-20	3M™ Virtua™ Protective Eyewear, Indoor/Outdoor Hard Coat Lens	Indoor/Outdoor	Hard Coat
11329-00000-20	3M™ Virtua™ Protective Eyewear, Clear Anti Fog Lens	Clear	Anti-Fog
11330-00000-20	3M™ Virtua™ Protective Eyewear, Gray Anti-Fog Lens	Gray	Anti-Fog

## 3M™ Overspectacle



### 3M™ OX™ Protective Eyewear 12163

For workers with prescription glasses, 3M™ OX™ Protective Eyewear offers an extended field of vision with its wide profile. Its seamless lens with built-in sideshields secures an uninterrupted sight range with over-the-glass coverage. OX protective eyewear increases comfort and delivers a flexible over-the-glass coverage.

- Over-the-glass coverage for prescription eyeglass wearers
- Polycarbonate lens absorbs 99.9% of harmful UVA and UVB rays
- Adjustable temples

Model	Description	Lens
12163-00000-20	Over-The-Glass Protective Eyewear	Clear Lens with Anti-Fog Coating
12166-00000-20	Over-The-Glass Protective Eyewear, with Adjustable Temples	Clear Lens with Anti-Fog Coating



### 3M™ Chemical Glasses

- Choice of indirect or direct venting
- Polycarbonate lenses absorb 99.9% UVA and UVB
- Adjustable elastic strap
- Choice of either impact safety or splash safety goggles with Anti-Fog properties
- Meets the requirements of ANSI Z87.1-2010

Model	Type	Venting	Lens
332	Impact	Direct	Clear Lens without Coating
334	Splash	Indirect	Clear Lens with Anti-Fog Coating

### 3M™ GoggleGear™ 500 Series

This series is created with 3M™ Scotchgard™ Protector Anti-Fog Coating. This coating lasts longer than traditional anti-fog coatings, helping to increase eyewear performance in wet and steamy environments.



- The coating retains its effectiveness for at least 25 washings with water, allowing workers to wear their eyewear longer
- The coating withstands disinfection with diluted bleach soaking or alcohol wipes without losing its anti-fog performance
- 3M™ Scotchgard™ Protector Anti-Fog Coated Eyewear meets the requirements of ANSI Z87.1 and CSA Z94.3

Model	Description	Lens
GG501NSGAF	Safety Goggle	Clear 3M™ Scotchgard™ Protector Anti-Fog lens

### 3M™ GoggleGear™ 6000 Series

The 3M™ GoggleGear™ 6000 Series is a larger-profile goggle design that features models with 3M™ Scotchgard™ Anti-Fog Coating. All models come with indirect venting to help reduce fogging. Both adjustable nylon fiber cloth strap, or neoprene strap, are available within the 3M™ GoggleGear™ 6000 Series.



- Scotchgard™ Anti-fog coating for fog and abrasion resistance
- Polycarbonate lens absorbs 99.9% UVA & UVB and meet the requirements of ANSI Z87.1-2015 Standard as an Impact Rated spectacle

Model	Description	Lens
GG6001NSGAF	Safety Goggle	Clear 3M™ Scotchgard™ Protector Anti-Fog lens

#### Warning

These eye and face protection products help provide limited eye and face protection. **Misuse or failure to follow warnings and User Instructions may result in serious potential injury, including blindness or death.** For proper use, selection, and applications against flying particles, optical radiation and/or splash, see supervisor, read User Instructions and warnings on the package.

## 3M™ GoggleGear™ Protective Goggle 3000 Series

Full-size protective goggle featuring a shroud designed to accommodate many prescription eyewear.



\*Please see ordering information for details



Help workers see clearly, longer with 3M™ Scotchgard™ Anti-Fog/Anti-Scratch Protector Coating. Scotchgard™ Anti-Fog Coating resists fog 11x longer and has 7x better anti-scratch performance than traditional 3M anti-fog coatings. Meets Anti-Fog Performance (X) requirements of the ANSI/ISEA Z87.1-2020 Standard.

Coming Soon in 2025

GG3101A-SGAF



GG3301A-SGAF



Product I.D.	SAF I.D.	Description	Lens	Coating	Goggle Rating	Shroud Material	Strap	Asian Fit	BU/ UOM
GG3101A-SGAF	7100325025	3M™ GoggleGear™ Protective Goggle 3000 Series, GG3101A-SGAF, PVC Shroud, ClearScotchgard™ AF/AS Lens, Premium Cloth Strap	Clear Polycarbonate	Scotchgard™ SGAF	D3, D4	PVC	Premium polyester not formulated with natural rubber latex	Yes	10/cs
GG3301A-SGAF	7100325029	3M™ GoggleGear™ Protective Goggle 3000 Series, GG3301A-SGAF, TPV Shroud, ClearScotchgard™ AF/AS Lens, Premium Cloth Strap	Clear Polycarbonate	Scotchgard™ SGAF	D3, D4	TPV	Premium polyester not formulated with natural rubber latex 10	Yes	10/cs

Scotchgard™ SGAF: Scotchgard™ Anti-Fog

**WARNING:** These eye and face protection products help provide limited eye and face protection. Misuse or failure to follow warnings and User Instructions may result in serious potential injury, including blindness or death. For proper use, selection and applications against flying particles, optical radiation and/or splash, see supervisor, read User Instructions and warnings on the package or call 3M Personal Safety Division (PSD) Technical Service in Singapore at 65-6450 8888.



# 3M™ Hard Hats

This series of hard hats help alleviate workers' frustration with the engineering advancements in suspension, a lightweight shell, a patented UV indicator and customization option.

# 3M™ SecureFit™ X-Series Safety Helmets

The new 3M™ SecureFit™ Safety Helmet is a climbing-style helmet that delivers all-day comfort without sacrificing security. From our proprietary design to our industry-leading innovations, the 3M™ SecureFit™ Safety Helmet is engineered by safety experts with workers in mind. The result is a revolutionary helmet design that delivers what workers need. Comfort without compromise.



## Features and Benefits:

- Suspension system incorporates exclusive patented Pressure Diffusion Technology
- 4-point or 6-point ratchet suspension allows wearer to customise height and fit
- Proprietary UV indicator that lets wearer know when to replace helmet due to UV exposure
- Vented helmets are certified to either EN 12492 or EN 397 (depending on chin strap configuration)
- Climbing helmet-inspired design
- Customise your fit with multiple levels of vertical adjustment
- Works with a variety of 3M faceshields, earmuffs, and other accessories



### 3M™ SecureFit™ Safety Helmet X5000 Series

- Vented
- 4-point chin strap selector system unique to 3M allows wearer to convert between EN 12492 and EN 397 standards. Certified to EN 12492, EN 397
- Available in 8 colours



#### Chin straps

An adjustable plastic buckle chin strap comes as standard, or opt for a magnetic buckle chin strap for added safety. Excellent ventilation with ports on sides and back.



#### Accessory slots

Accessory slots designed to hold 3M earmuffs and communication products.



#### Elastic band clips

Integrated clips help hold elastic bands used with 3M goggles and headlamps.



#### Removable sweatband

Sweatbands can be removed and washed, or replaced with sweatband replacement accessory.



#### EN 397 Chin Straps - No Switch

Opt for no switch chin strap with plastic buckle or change to the premium chin strap with a magnetic, quick-release buckle.



#### EN 12492 / EN 397 Chin Straps - With Switch

For your X5000 only, the 4-point chin strap allows for an easy switch between EN 12492 and EN 397 standards.

# 3M™ SecureFit™ Safety Helmet

## X5000: Vented

Model	Description	Quantity
X5001V-CE	3M™ SecureFit™ Safety Helmet, X5001V-CE, white, vented, 1000V, CE	4 Ea/case
X5002V-CE	3M™ SecureFit™ Safety Helmet, X5002V-CE, yellow, vented, 1000V, CE	4 Ea/case
X5003V-CE	3M™ SecureFit™ Safety Helmet, X5003V-CE, blue, vented, 1000V, CE	4 Ea/case
X5004V-CE	3M™ SecureFit™ Safety Helmet, X5004V-CE, green, vented, 1000V, CE	4 Ea/case
X5005V-CE	3M™ SecureFit™ Safety Helmet, X5005V-CE, red, vented, 1000V, CE	4 Ea/case
X5007V-CE	3M™ SecureFit™ Safety Helmet, X5007V-CE, orange, vented, 1000V, CE	4 Ea/case
X5012V-CE	3M™ SecureFit™ Safety Helmet, X5012V-CE, black, vented, 1000V, CE	4 Ea/case
X5014V-CE	3M™ SecureFit™ Safety Helmet, X5014V-CE, Hi-Vis green, vented, 1000V, CE	4 Ea/case

# 3M™ Chin Straps for X-Series

Model	Description	Quantity
X5-S4PTCS1	3M™ X5-S4PTCS1 Standard 4 Point Chin Strap with buckle for SecureFit™ Safety Helmet	10 Ea/case
X5-S4PTCS2	3M™ X5-S4PTCS2 Standard 4 Point Chin Strap with buckle and selector for SecureFit™ Safety Helmet (X-5000 only)	10 Ea/case

# 3M™ Suspensions

Model	Description	Quantity
X5-SWBDO1	3M™ X5-BWPD01 black/Grey Replacement Sweat Band for SecureFit™ Safety Helmet	10 Ea/case
X5-6PTSTRAP	3M™ X5-6PTSTRAP 6 Point Suspension Strap for SecureFit™ Safety Helmet	10 Ea/case
X5-4PTSUS	3M™ X5-4PTSUS Replacement 4 Point Suspension for SecureFit™ Safety Helmet X5000	10 Ea/case
X5-6PTSUS	3M™ X5-6PTSUS Replacement 6 Point Suspension for SecureFit™ Safety Helmet X5000	10 Ea/case

# 3M™ Industrial Safety Helmet G3000/G3001

The 3M™ Industrial Safety Helmet G3000 is designed to offer you head protection from small falling objects in accordance with the European Standard EN 397:2012+A1:2012.

It is available in a variety of configurations so that the product can be tailored to meet the needs of your application.

It is also a platform for a range of hearing, eye and face protection products.



## Testing and approval

The 3M™ Industrial Safety Helmets G3000 and G3001 meet the requirements of the PPE Regulation (EU) 2016/425 and are thus CE marked.

The products have been tested and approved by RISE Research Institutes of Sweden AB, Box 857, SE-50115 Borås, Sweden, Notified Body No. 0402.

The product has been tested and approved in accordance with EN 397:2012+A1:2012 and certain versions of G3001 in accordance with EN 50365:2002.

## Key features

- The 3M™ Uvicator™ can help to indicate when it is time to replace the helmet as a result of excess exposure to Ultraviolet (UV) radiation
- Available with ratchet or pinlock head suspensions for adjustability
- Ventilated versions for increased airflow within the shell
- Branding and logo printing options available
- Replaceable leather or plastic sweatband
- Helmets meet EN 397:212+A1:2012 requirements with the harness rotated through 180° (back to front)
- Electrically insulated versions meeting EN 50365:2002 for use on low voltage installations
- Approved for use at -30°C
- Mining lamp holder option available
- Available in 8 standard colours (white, yellow, blue, red, green, orange, black, hi-viz green)
- Options available with reflective stripes fitted as standard

## Typical applications

- Construction
- Forestry
- Industry
- Metalwork
- Utilities and electrical

## Accessories

The 3M™ G3000 is compatible protection with a range of eye, face and hearing protection products offering flexible and compatible protection.

- GH1 2-Point Chinstrap
- GH4 3-Point Chinstrap
- HYG3 Sweatband plastic (standard)
- HYG4 Sweatband leather
- GR3C Rain shield
- V9 Integrated eyewear
- All 3M™ PELTOR™ Hearing Solutions with helmet mounted option
- P3E Adaptor for visor attachment
- 3M™ V4 Faceshields in combination with faceshield holders V43 (with peak) and V46 (without peak)
- 3M™ V5 Faceshields in combination with faceshield holder V5

## Use limitation

- Never modify or alter the safety helmet
- Do not use this safety helmet against hazards other than those specified in the user instruction
- Use, store and maintain the safety helmet in accordance with the user instruction



## Materials

Component	Material
Shell	UV Stabilised ABS
Headband	HDPE
Cradle	Polyester
Sweatband	Leather or plastic (PVC coated foam)

## Use and storage

Temperature range for usage	-30°C to +50°C
Recommended storage conditions	+3°C to +40°C <85% humidity
Maximum recommended product life	Up to 5 years from date of manufacture*

\*The product life as defined above is indicative data. The product life is subject to many external and non-controllable factors and should not be interpreted as a warranty

## Product configuration

Helmet shell	
G3001NUV-VI	Without ventilation, White
G3001NUV-GU	Without ventilation, Yellow
G3001NUV-BB	Without ventilation, Blue

Fitting sizes	
Pinlock harness	54-62cm
Ratchet harness	53-62cm

The 3M™ M-956 size reducing comfort pad is available as an option for use with the ratchet harness.

Suspension	
G2C	4 point pinlock headband with plastic sweatband
G2D	4 point pinlock headband with leather sweatband
G2M	4 point ratchet headband with leather sweatband
G2N	4 point ratchet headband with plastic sweatband

## Product classification

Additional protection characteristics (according to EN 397:2012+A1:2012)

Low temperatures			High temperatures			Electrical properties		Lateral deformation
-10°C	-20°C	-30°C	+50°C	+150°C	Molten metal	440Vac**	1000Vac/ 1500Vdc**	LD
✓	✓	✓	✓	✗	✓	✓	✓	✗

\*\*Properties available on non-vented shell models G3001

## Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

Personal Protective Equipment is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to Physical Hazards. 3M offers advice on the selection of products, and training in the correct fitting and usage.

For more information on 3M products and services please contact 3M.



# 3M Protective Coveralls



### SMS

Spunbond Meltblown Spunbond are robust breathable fabrics, designed to offer a good barrier against hazardous particles and limited liquid splashes.  
 Protective Coveralls 4515, 4520, 4530 and back panels of Protective Coveralls 4535 and 4540+



### Microporous PE Laminate

Polypropylene PE laminate is designed to offer a good barrier against hazardous particles and limited liquid splashes, while the micropores allow for some breathability.  
 Protective Coveralls 4510 and 4545. Also white material of Protective Coveralls 4535 and 4540+



### Non-microporous PE Laminate

Designed to offer a very good barrier against hazardous particles and certain liquid splashes and sprays.  
 Protective Coverall 4565



### Multi-Layer Non-Microporous PE Laminate

Designed to offer an excellent barrier against hazardous particles and certain liquid splashes, sprays and jets.  
 Protective Coverall 4570

Category	Symbol	Protection Type	Standard	3M Product Code	PROTECTION
CE Category III		Type 1 Gas Protection		N/A	↑ HIGH ↓ LOW
		Type 2 Non-Gas Protection		N/A	
		Type 3 Liquid Jet Protection	EN 14605 (EN ISO 17491-3)	4570	
		Type 4 Liquid Spray Protection	EN 14605 (EN ISO 17491-3)	4570, 4565	
		Type 5 Particle Protection	EN ISO 13992-1	4570, 4565, 4545, 4540+, 4535, 4530, 4520, 4515, 4510	
		Type 6 Limited Liquid Splash Protection	EN 13034 (EN ISO 17491-4)		

## Additional Standards

Tests for Protection against micro-organisms	4510	4545	4565	4570
ASTM 1671 bloodborne pathogen penetration resistance	—	—	—	Pass
ASTM 1670 synthetic blood penetration resistance	—	—	—	Pass
ISO 19603 aerosol resistance to penetration under pressure by synthetic blood (visual assessment)	Class 4 of 6	Class 4 of 6	Class 5 of 6*	Class 5 of 6*
ISO 19604 models resistance to viral penetration under pressure (biological assay)	Unclassified	Unclassified	Unclassified	Class 0 of 6*
ISO 22810 aerosol resistance to wet bacterial penetration during mechanical contact	Class 5 of 6*	Class 5 of 6*	Class 5 of 6*	Class 5 of 6*
ISO 22811 aerosol resistance to penetration by aerosols containing bacteria	Class 3 of 3*	Class 3 of 3*	Class 3 of 3*	Class 3 of 3*
ISO 22812 aerosol resistance to dry microbial penetration using talc contaminated with spores	Class 3 of 3*	Class 3 of 3*	Class 3 of 3*	Class 3 of 3*

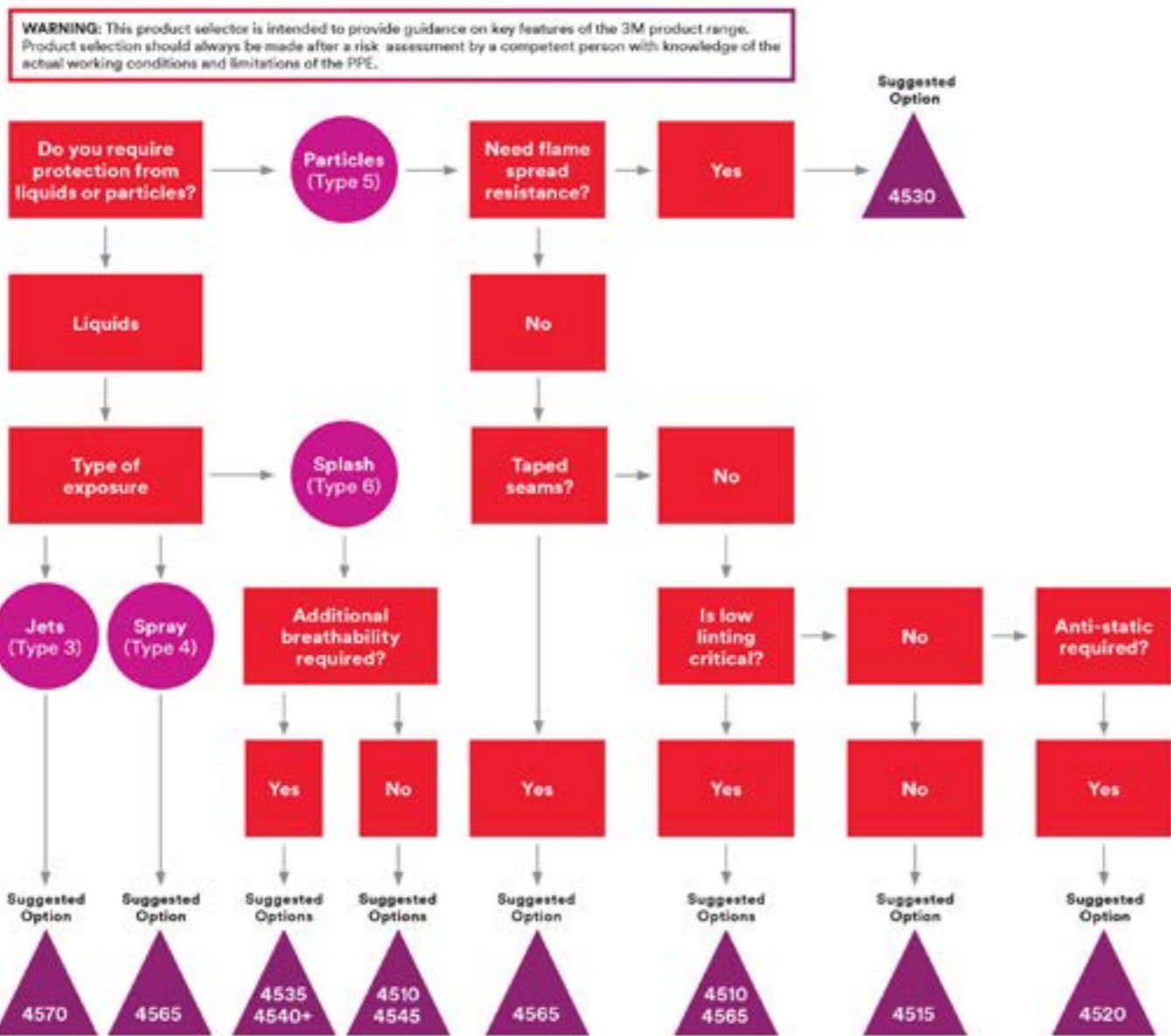
\*Please refer to product user instructions and packaging for more information. An "\*" denotes highest level of performance according to test method.



# 3M™ Protective Coveralls

3M™ Protective Eyewear Products are designed with your safety in mind. 3M's dedication to quality ensures all 3M protective eyewear products meet both physical and optical requirements of the ANSI Z87.1 Standard as High Impact Protectors.

# Selection Flow Chart



\*The fabric complies with ISO 4116:2008 for limited flamespread index 1 (must be worn over and index 2 or 3 garment and must not be worn next to skin).

**WARNING:** Cuffs and zipper are not flame resistant. Cuffs must be worn under gloves.

### Review Product Selection Guide

#### Important Notice

This guide is only an outline. It should not be used as the only means for selecting protective clothing. 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. Selection of the most appropriate PPE will depend on the particular situation and should only be made by a competent person knowledgeable of the actual working conditions and the limitations of PPE.

Final determination as to the suitability of these products for a particular situation is the employer's responsibility. This information is subject to revision at any time. Always read and follow all user instructions supplied with your 3M™ Protective Coveralls in order to ensure correct operation. If you have questions contact 3M Technical Service. **LIMITATION OF LIABILITY:** Except as provided above, 3M shall not be liable or responsible for any loss or damage, whether direct, indirect, incidental, special or consequential arising out of the sale, use or misuse of 3M PSD products, or the user's inability to use such products. THESE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE.

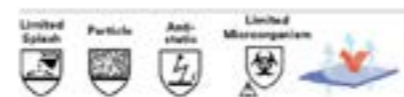
**WARRANTY:** 3M will replace or refund the purchase price of any Personal Safety Division product found to be defective in material, manufacture, or not in conformance with any expressed warranty. THIS WARRANTY IS EXCLUSIVE.

# 3M™ Protective Coveralls Line

## 3M™ Protective Coverall 4510

Designed to offer cost effective protection against hazardous dusts and limited liquid splashes.

- Elasticized hood, ankles, cuffs and waist
- 2 way zip with storm flap
- Ultra low linting
- Collared and hooded available
- Anti-static



## 3M™ Protective Coverall 4515

Made from lightweight and extremely breathable material and is designed to offer protection against hazardous dusts and limited liquid splashes.

- Elasticized hood, cuffs, ankles and waist
- 2 way zip with storm flap
- Low linting



## 3M™ Protective Coverall 4540

A highly versatile protective coverall, which is mostly made from a unique microporous PE laminate, designed to be softer and drape better over the body. It is designed to offer a good barrier to particles and limited liquid splash but it also features a breathable SMMMS back panel.

- Elasticized hood, ankles and waist
- 2 way zip with fully sealable storm flap
- 3-panel hood
- Knitted cuffs
- Low linting
- Collared and hooded available
- Anti-static



## 3M™ Protective Coverall 4570

Designed to offer a barrier to hazardous particles and certain liquid splashes, sprays and jets.

- Elasticized hood and ankles
- Double front closing system with large ring zip pull for easy wear
- 3-panel hood
- Elasticized cuffs with thumb loops
- Ultra low linting
- Anti-static



## 3M™ Protective Coverall 4532+

Made from highly breathable and lightweight 5 layered SMMMS material, providing the wearer with CE Type 5/6 protection with specialist treatments providing anti-static protection and an enhanced liquid repellency.

- Elasticized hood, ankles and waist
- 2 way zip with storm flap
- 3-panel hood
- Knitted cuffs
- Ultra low linting
- Meets inward leakage requirements
- Anti-static



For more info on Protective Coveralls, checkout our website: **3M.com.sg**





### 3M offers a new way to complete and efficiently track respirator fit testing with 3M™ Wear It Right App.

The app is designed to guide qualitative respirator fit testing following standard protocols. Its features include:



Reduce paper use with all fit test results stored locally. Results can be exported.



Full guidance mode provides step-by-step assistance for fit tester.



Minimal guidance mode allows for multiple simultaneous fit tests.



Guides fit testers through the sensitivity test, captures the sensitivity level, and reminds fit testers the correct number of aerosol sprays during fit test.



Dashboard with filtering functionality summarizes fit test results.



Fit test certificates and wallet cards with your logo can be digitally signed and printed.

Download 3M Wear It Right App here:



Watch video on the app by scanning this QR Code:



Instruction for Use:



### Hearing Fit Testing

Hearing protector fit testing is a way to measure the amount of noise reduction, or attenuation, a hearing protector provides while it is being worn by a specific individual. This real-world measurement is referred to as a "Personal Attenuation Rating" or PAR.

3M recommends workers fit test their hearing protectors. So, like respirators, the worker can better understand the level of protection they can achieve with a properly fitted hearing protector using the 3M™ E-A-Rfit™ Dual-Ear Validation System.



Scan the QR Code for more information.



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