



Science.
Applied to Life.™

3M Personal Safety Division

The Power to Protect Your World

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 - 22 |
| 3M™ Hearing Protection Solutions | 23 - 35 |
| 3M™ Protective Eyewear | 36 - 43 |
| 3M™ Hard Hats | 44 - 50 |
| 3M™ Face Protection Solutions | 51 - 54 |
| 3M™ Protective Coveralls | 55 - 59 |
| 3M™ Fall Protection Solutions | 60 - 64 |



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.

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.

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

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

Step 1

Identify the hazards – dust, metal fume, gas, vapour 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

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 call 3M Personal Safety Division. Tel: 03-7884 2990

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.

¹ 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.

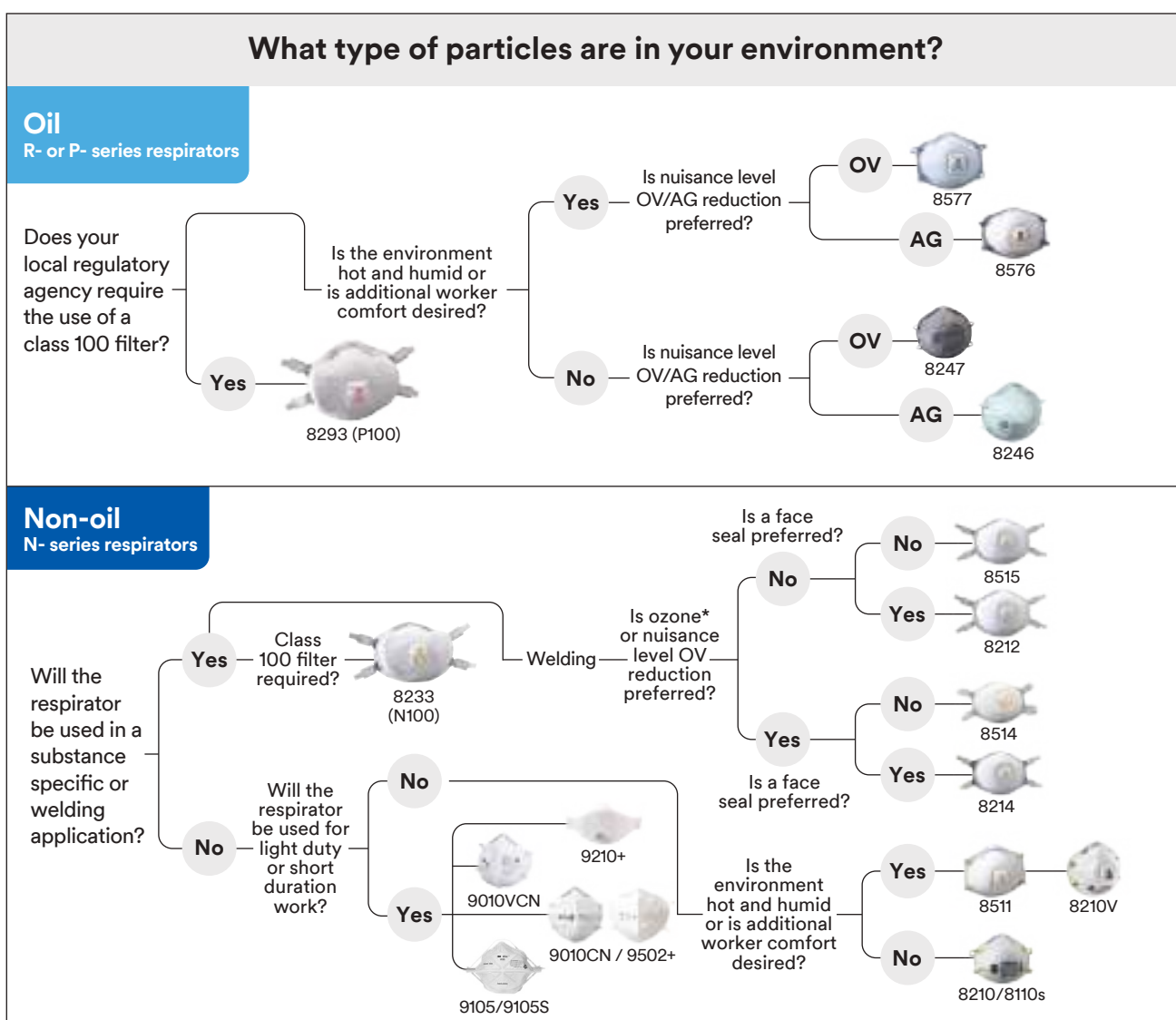
Index

Time use limitation

1. If respirator becomes damaged, soiled, or breathing becomes difficult, leave the contaminated area and replace respirator.
 2. 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.
 3. If oil aerosols are present, time use may be limited to 8 hours of continuous or intermittent use.
 4. If used in environments containing only oil aerosols, replace respirator after 40 hours of use or 30 days, whichever is first.
- * 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.
- ** 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.
- *** 3M recommends for ozone protection up to 10 times the OSHA PEL or applicable government occupational exposure limits, whichever is lower.

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.

Time Use Limitation: 1

Standard

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 9010CN/9502+ (N95)

- Vertical flat fold design convenience.
- Each respirator is individually packaged to offer convenient storage and portability.
- 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:

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

ⁱ Time Use Limitation: 1, 3 & 4

ⁱⁱ Time Use Limitation: 1



3M™ Particulate Respirator 8293ⁱ (P100)

- It provides a minimum filter efficiency of 99.97% against oil base 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



3M™ Particulate Respirator 8233ⁱⁱ (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

ⁱ Time Use Limitation: 1

ⁱⁱ Time Use Limitation: 1 & 2

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).



3M™ Particulate Respirator with Faceseal 8214ⁱⁱ (N95)

- Designed for applications where metal fumes may be present including those with ozone* and nuisance level organic vapors**.
- 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 8514ⁱⁱ (N95)

- Designed for applications where metal fumes are present including those with ozone* and nuisance level organic vapors**.
- Adjustable noseclip and fully adjustable headband help to provide secure fit and seal.
- Compatible with a variety of protective eyewear and hearing protection.
- Packaging: 10each/box, 8 boxes/case



3M™ Particulate Respirator with Faceseal 8212ⁱ (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 8515ⁱ (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 | Carbon Filter Material | Cake Resistant Media | Adjustable Straps | Welding Web | APF* |
|---------------------------|---------------------------------|------------|-----------|-------------------------|------------------------|----------------------|-------------------|-------------|------|
| Welding and Metal Pouring | | | | | | | | | |
| 8212 | • | | • | • | | • | • | • | 10 |
| 8214 | • | | • | • | OV OZ | • | • | • | 10 |
| 8514 | • | | | • | OV OZ | • | • | • | 10 |
| 8515 | • | • | | • | | | | • | 10 |

Specialty

ⁱ Time Use Limitation: 1 & 3

ⁱⁱ Time Use Limitation: 1 & 4

Specialty Respirators for dusty conditions with nuisance odor:

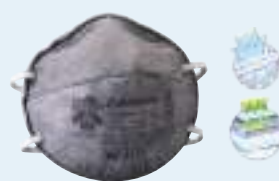
Non-valved Specialty Respirators

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



3M™ Particulate Respirator 8246ⁱ (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 8247ⁱ (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 8576ⁱⁱ (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 8577ⁱⁱ (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.
- DOSH Approval No.: JKKP 04/20
- Maximum use levels: 10 x WELs.
- Individually packaged for convenient storage, portability and hygiene.
- Packaging: 20each/box, 12 boxes/case



3M™ Aura™ Particulate Respirator 9320A+ (FFP2 / P2)

- The respirator is designed for use against fine dusts and water-based mists found in construction, industrial and many solid chemical handling applications requiring P2 protection.
- Conforms to Standard: EN149, AS / NZS 1716.
- DOSH Approval No.: JKKP 06/20
- 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 9312A+ (FFP1 / P1)

- This valved respirator can be used in many hot and humid environments where P1 protection is required.
- Conforms to Standard: EN149, AS / NZS 1716.
- DOSH Approval No.: JKKP 05/20
- Maximum use levels: 10 x WELs.
- Individually packaged for convenient storage, portability and hygiene.
- Packaging: 10each/box, 12 boxes/case



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.
- DOSH Approval No.: JKKP 07/20
- 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.
- DOSH Approval No.: JKKP 09/20
- 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 / KN95)

- 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 and GB2626 Standards.
- Carbon layer provides relief from nuisance levels of organic vapor.*
- Packaging: 25 each/box, 10 boxes/case



3M™ Particulate Respirator 9542V (P2 / KN95)

- 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 and 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 / KN95)

- 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 and GB2626 Standards.
- Packaging: 50 each/box, 10 boxes/case

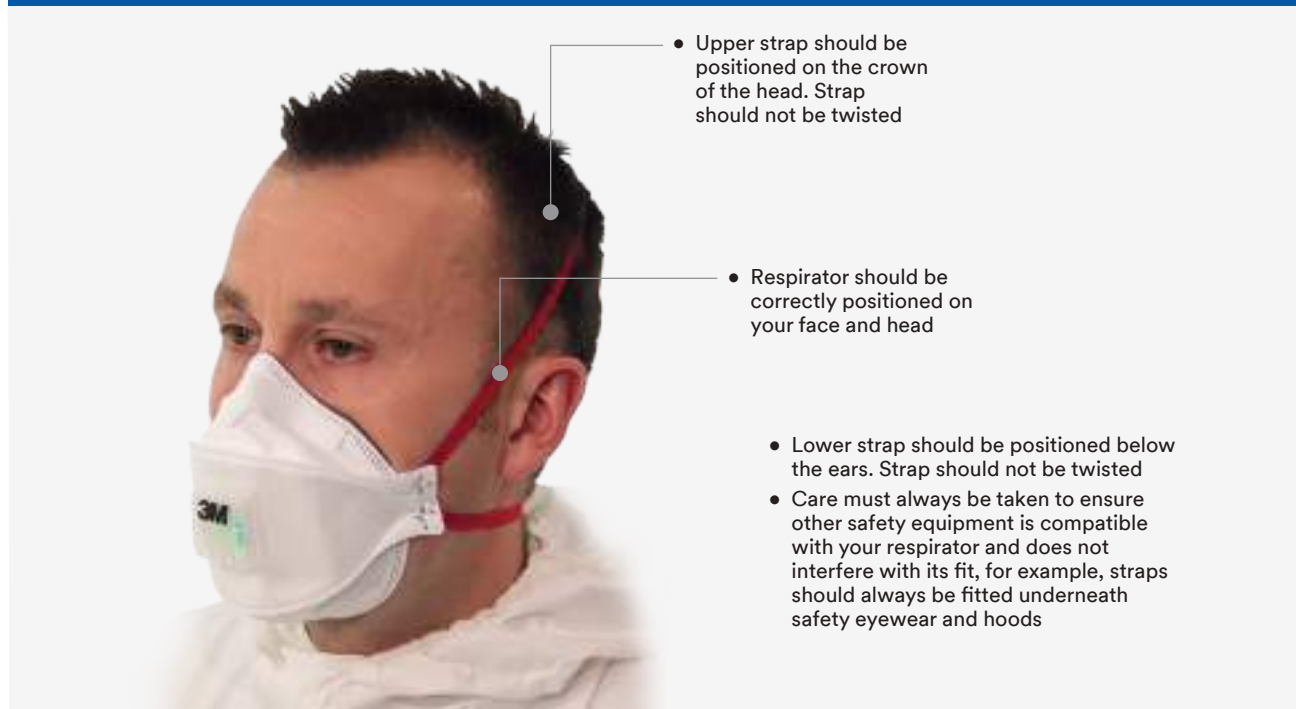


* 3M recommends for relief from nuisance levels of organic vapors. Nuisance level refers to concentrations not exceeding the OSHA PEL, or applicable government occupational exposure limits, whichever is lower.

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:



- 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

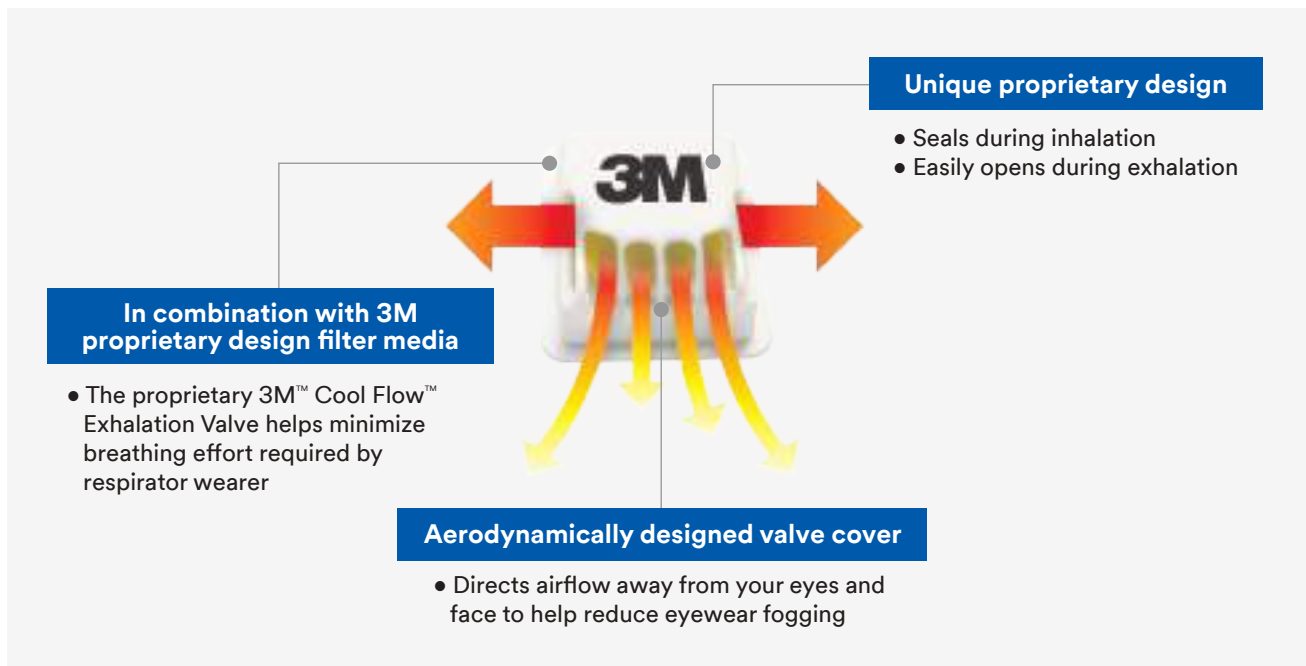
Repeat the above fit check.

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.

Cool <

> Hot

Inhalation



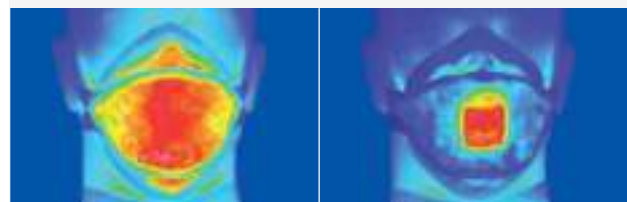
3M™ Aura™
Particulate Respirator
9320A+

3M™ Aura™
Particulate Respirator
9322A+

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.

Exhalation

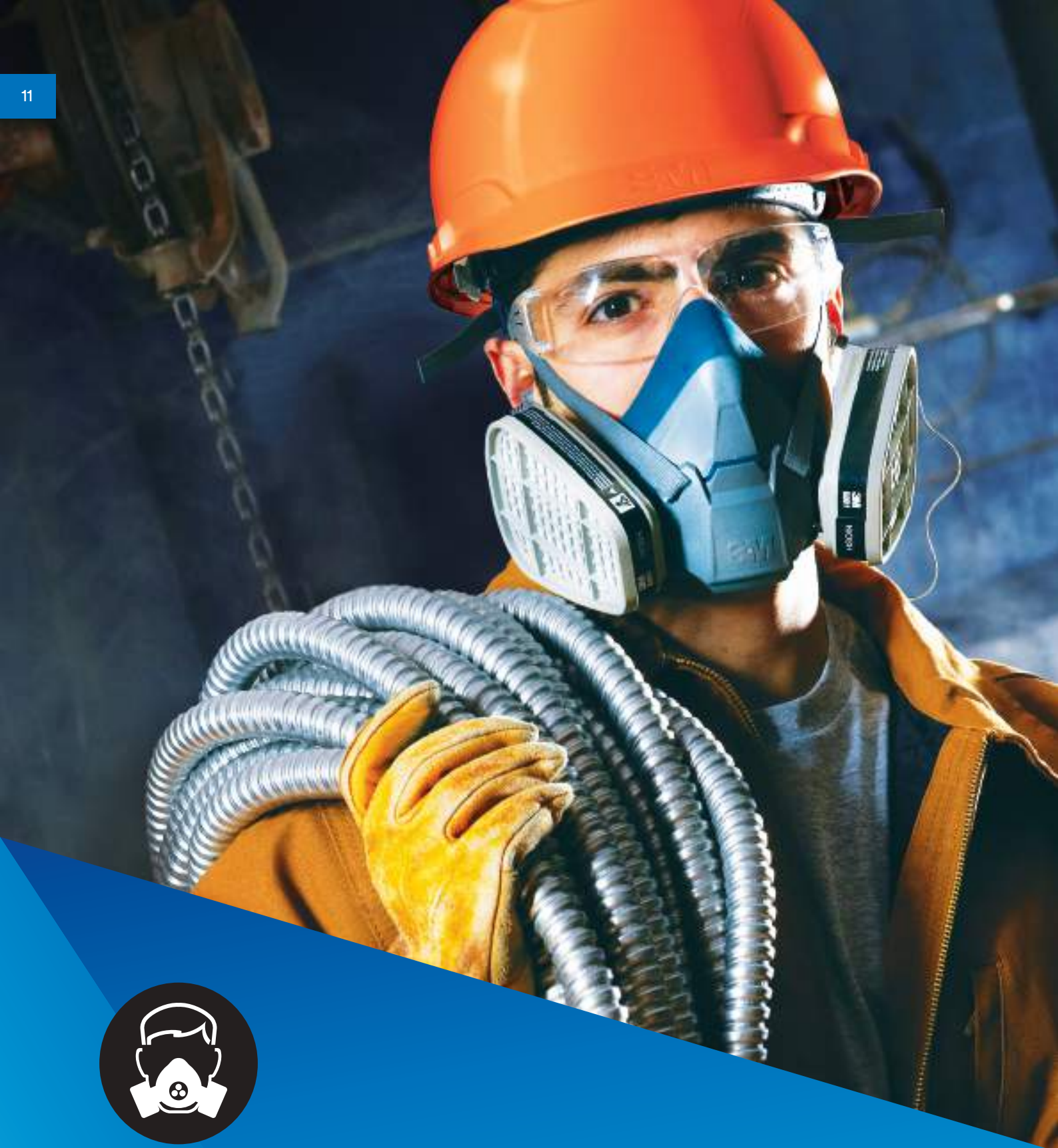


3M™ Aura™
Particulate Respirator
9320A+

3M™ Aura™
Particulate Respirator
9322A+

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 (Malaysia) 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 call 3M Personal Safety Division at 603-7884 2990.


Select the Right Facepiece

| | | | | |
|---|--|--|--|--|
| 3M™ Half Facepiece Single Cartridge Respirator |  3100 (small/ medium) 3200 (medium/ large) |  HF51 (small/ medium) HF52 (medium/ large) | | |
| 3M™ Half Facepiece Dual Cartridge Respirator |  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) |
| 3M™ Full Facepiece Dual Cartridge Respirator |  6700 (small) 6800 (medium) 6900 (large) | | | |




| Respirator models | 3M™ Half Facepiece Single Cartridge Respirator | | 3M™ Half Facepiece Dual Cartridge Respirator | | | | 3M™ Full Facepiece Dual Cartridge Respirator |
|--|---|---|---|--|--|---|---|
| |  3000 series |  HF series |  6200 series |  6500 QL series |  7500 series |  HF-800SD series |  6800 series |
| 3M™ Cool Flow™ Exhalation Valve | | • | | • | • | • | • |
| Compatible with 3M™ Supplied Air System | | | • | • | • | | • |
| Compatible with 3M™ Powered Air Purifying Respirators | | | | | | | • |
| Speaking diaphragm | | | | | | • | |
| Thermoplastic (TP) / Silicone(s) Faceseal | TP | S | TP | S | S | S | TP/S |
| Compatible with 3M™ Secure Click™ Cartridges and Filters | | | | | | • | |

Product Matrix Selection:

3M™ Half Facepiece Single Cartridge Reusable Respirators

| | Particulate / Gas & Vapor Protection | Particulate Protection Only | Pre-attached. Particulate and Gas & Vapor Protection |
|--|--|---|---|
|  3M™ Half Facepiece Single Cartridge Reusable Respirator 3000 series |  3301K-55 |  1700  |  3311K-55 |
|  3M™ Half Facepiece Single Cartridge Reusable Respirator HF Series |  3303K-100 |  1744 / 1744C | |

| 3M Cartridges, Filters, Retainer and Adapters | |
|---|--|
| 3301K-55 | 3M™ Organic Vapor Cartridge without Pre-filter, KOSHA Standard |
| 3311K-55 | 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* |
| 3303K-100 | 3M™ Organic Vapor and Acid Gas Cartridge, without filter, KOSHA Standard |

| Ordering Information - Replacement Parts | | |
|--|---------------------------|------------|
| Model | Description | Packaging |
| For 3000 & HF-50 Series Facepiece | | |
|  381 | 3M™ Head Harness Assembly | 25ea/case |
|  382 | 3M™ Inhalation Valve | 100ea/case |
| For 3000 Series Facepiece Only | | |
|  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

3M™ Facepieces

| | | | |
|---|---|--|---|
|  |  |  |  |
| Thermoplastic Facepiece | Rugged Sillicon Facepiece | Sillicon Facepiece | Thermoplastic Sillicon Facepiece |
| 6100 (S) | 6501 QL (S) | 7501 (S) | 6700 (S) |
| 6200 (M) | 6502 QL (M) | 7502 (M) | 6800 (M) |
| 6300 (L) | 6503 QL (L) | 7503 (L) | 6900 (L) |

3M™ Cartridges and Filters

| Particulate Filter | 3M™ Filter Retainer and Adapter | Gas and Vapor Cartridges |
|---|--|--|
|  2125 P2R Filter |  501 Filter Retainer |  6051 A1 |
|  2128* P2R Filter | |  6057 ABE1 |
|  2135 P3R Filter | |  6054 K1 |
|  2138* P3R Filter |  5925 P2R Filter |  6075 A1/ Formaldehyde |
|  6035 P3R Filter |  5935 P3R Filter |  6059 ABEK1 |
|  6038** P3R Filter | |  6096 A1E1HgP3 |

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.

* 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.

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 and 7000 Series.

| 3M™ Particulate Filters 2000 Series | Part Number | Description |
|--|-------------|---|
|  <ul style="list-style-type: none"> • Lightweight and easy to breathe through. • Assortment of filters available for a wide range of applications. • Easier breathing through new 3-layer advanced Electret Filter Media. | 2125 | 3M™ Particulate Filter, P2R |
| | 2128 | 3M™ Particulate Filter, P2R with Nuisance Level Organic Vapor / Acid Gas Relief* |
| | 2135 | 3M™ Particulate Filter, P3R |
| | 2138 | 3M™ Particulate Filter, P3R with Nuisance Level Organic Vapor / Acid Gas Relief* |
| 3M™ Particulate Filter 6000 Series | Part Number | Description |
|  <ul style="list-style-type: none"> • Unique, spring-loaded filter cover design simplifies negative pressure user seal checks. • Swept-back design provides enhanced field of view and greater comfort. • 6038 offers a lightweight, low profile design that combines P3R filtration with carbon-loaded features found in heavier combination cartridge products. • Channelled airflow protects filter for enhanced breathability and longer service life. | 6035 | 3M™ Particulate Filter, P3R |
| | 6038 | 3M™ Cartridge / Particulate Filter, Hydrogen Fluoride, P3R with Nuisance Level Organic Vapor / Acid Gas Relief* |
| 3M™ Gas / Vapor Cartridges 6000 Series | Part Number | Description |
|  <ul style="list-style-type: none"> • Swept-back design helps maintain good field of vision and comfort. • Full range of cartridges to meet your needs • Simple installation and usage requirements reduce training needs. | 6051 | 3M™ A1 Organic Vapor Cartridge |
| | 6057 | 3M™ ABE1 Organic Vapor / Inorganic Vapor / Acid Gas Cartridge |
| | 6054 | 3M™ K1 Ammonia Cartridge |
| | 6075 | 3M™ A1 Organic Vapor / Formaldehyde Cartridge |
| | 6059 | 3M™ ABEK1 Multi Gas Cartridge / Vapor Cartridge |
| | 6096 | 3M™ A1E1HgP3 Organic Vapor / Acid Gas / Mercury Cartridge with P3 Particulate Filter |



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.

NIOSH to CE Certified Bayonet Cartridge and Filter Change Guide

With the implementation of the Malaysia DOSH-SIRIM PPE Certification, all 3M™ Reusable Respirators that are NIOSH US CFR approved will be transitioned to European Standard (EN) – CE Certified. Below are the EN standards related to reusable respirators:

- EN 140 Half Masks & Quarter Masks
- EN 136 Full Face Masks
- EN 14387 Gas Filters & Combined Filters
- EN 143 Particulate Filters



















| 6000 Series Gas and Vapor Cartridges | |
|--|--|
| NIOSH Certified | CE Certified |
|  6001 OV |  6051 A1 |
|  6002 AG |  6057 ABE1 |
|  6003 OV + AG | |
|  6004 Ammonia |  6054 K1 |
|  6005 OV + Formaldehyde |  6075 A1 + Formaldehyde |
|  6006 Multi-Gas |  6059 ABEK1 |
|  6007 Mercury + OV |  6096 A1E1HGP3* |
|  6009S Mercury + Chlorine | |
| 2000 & 7000 Series Particulate Filters | |
|  2071 (P95) |  2125 (P2R) |
|  2078 (P95 with nuisance level OV/AG)¹ |  2128 (P2R with nuisance level OV/AG)¹ |
|  2091 (P100)² |  2135 (P3R)² |
|  2096 (P100 with nuisance level AG)¹,² |  2138 (P3R with nuisance level OV/AG)¹,² |
|  2097 (P100 with nuisance level OV)¹,² | |
|  7093² |  6035² |
|  7093C¹,² |  6038¹,² |
| Replaceable Filters (Used with 501 & 6000 Series Cartridges) | |
|  5N11 (N95) |  5925 P2R |
|  5P71 (P95) | |
| Combination of 6000 series cartridges with 2000 series particulate filters and 502 filter adapters |  5935 P3R |

* Comes with P3 filter, without End of Service Life Indicator, ESLI

¹ 3M recommends for odor relief against nuisance level acid gas or organic vapors. Nuisance odor levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower. Do not use for respiratory protection against gases or vapors.

² HEPA filters under NIOSH has magenta colour code. CE certified filters have no requirement for colour code.

3M™ 6000 & 7000 Series Replacement Parts

| Ordering Information - Replacement Parts | | | |
|--|---|--|------------|
| Product No. | Product | Description | Packaging |
| For 6200 Series Half Facepiece Respirators | | | |
| 6281 |  | 3M™ Head Strap Assembly | 20ea/case |
| 6889 |  | 3M™ Exhalation Valve | 10ea/case |
| For 6800 Series Full Facepiece Respirators | | | |
| 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 |
| 6878 |  | 3M™ Spectacle Kit | 1ea/kit |
| 6885 |  | 3M™ Face Shield Cover | 100ea/bag |
| 6886 |  | 3M™ Tinted Lens Cover | 25ea/case |
| BAG |  | 3M™ Respirator Drawstring Bag | 4ea/pkt |
| For 6200 Series Half and 6800 Series Full Facepiece Respirators | | | |
| 6893 |  | 3M™ Inhalation Valve | 200ea/case |
| 6895 |  | 3M™ Inhalation Gasket | 80ea/case |
| For 7500 Series Half Facepiece Respirators | | | |
| 7581 |  | 3M™ Head Harness Assembly | 20ea/case |
| 7582 |  | 3M™ Inhalation Valve | 10ea/case |
| 7586 |  | 3M™ Cartridge Filter Holder | 20ea/case |
| For 7500 Series Half and 6800 Series Full Facepiece Respirators | | | |
| 7583 |  | 3M™ Exhalation Valve | 10ea/case |

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 faceseal and strong body construction.



Using the 6500QL Series Quick Latch Drop Down Feature



Quick Latch Closed



Pull Up on Latch



Quick Latch Open



Pull Down on Latch

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.

Comfortable, Durable Silicone Faceseal

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

Low-Profile Design for Compatibility

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

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™ Inhalation Valve | 10ea/case |
| 6893 | | 3M™ Exhalation 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 Faceseal

Provides a softer feel for more comfort on the wearer's face.

New

Unique Filter & Cartridge Connection

Align the connections and push to hear a click.

Easy-Adjust Buckle

Simple two-way adjustability: pull straps to tighten, squeeze wings to loosen.



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.

Exhalation Valve

Helps direct exhaled breath and moisture downward.

Swept Back Filter & Cartridge Design

For compatibility with certain welding and grinding shields.

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

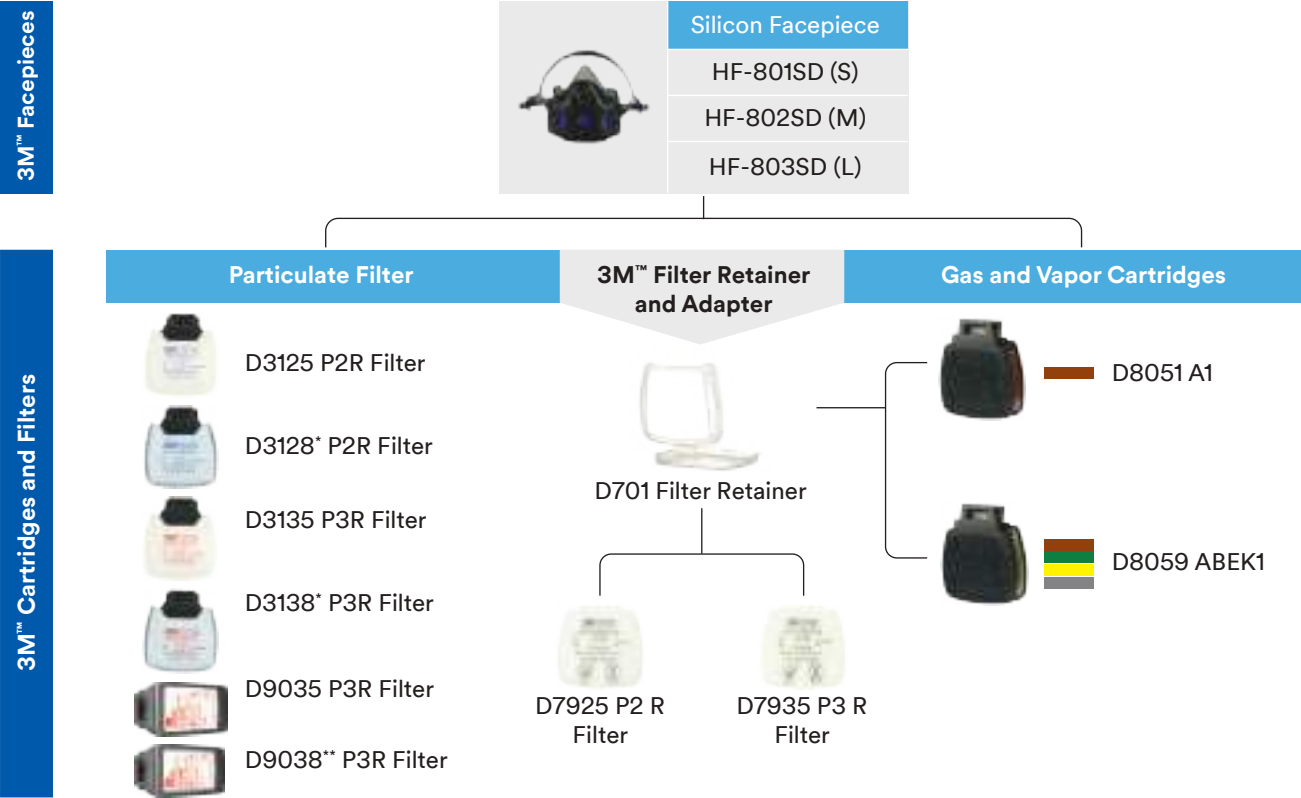
**Feel it:**

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



- 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.

* 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 |

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





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 Facts

The #1 Reported Occupational Health Issue:

data from the Malaysia SOCSO for that noise induced hearing loss is one of the highest reported occupational diseases in Malaysia.

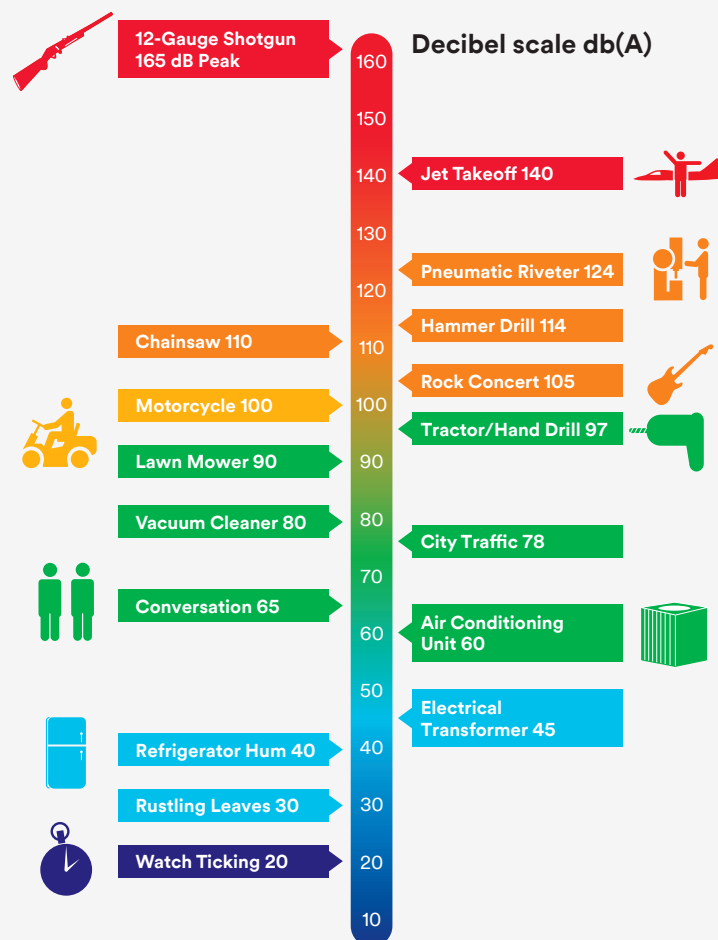
The Regulations

Malaysia 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.



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.



100 % Usage

Gives the expected protection.



99 % Usage

Just five minutes of carelessness per day significantly reduces the effect of the hearing protector.



90% Usage

Virtually no protection.

All 3M™ Personal Hearing Protection Products are tested in accordance with ANSI S3.19-1974.

Scan the QR Code to find out more.

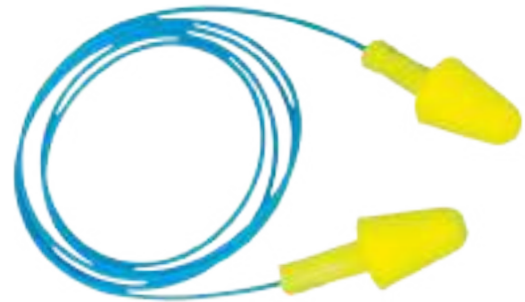


3M™ E-A-R™ Flexible Fit HA Earplug

Hearing protection simplified

Introducing the 3M™ E-A-R™ Flexible Fit HA Earplug. The first washable foam earplug and the first earplug with one-hand NRR claim.

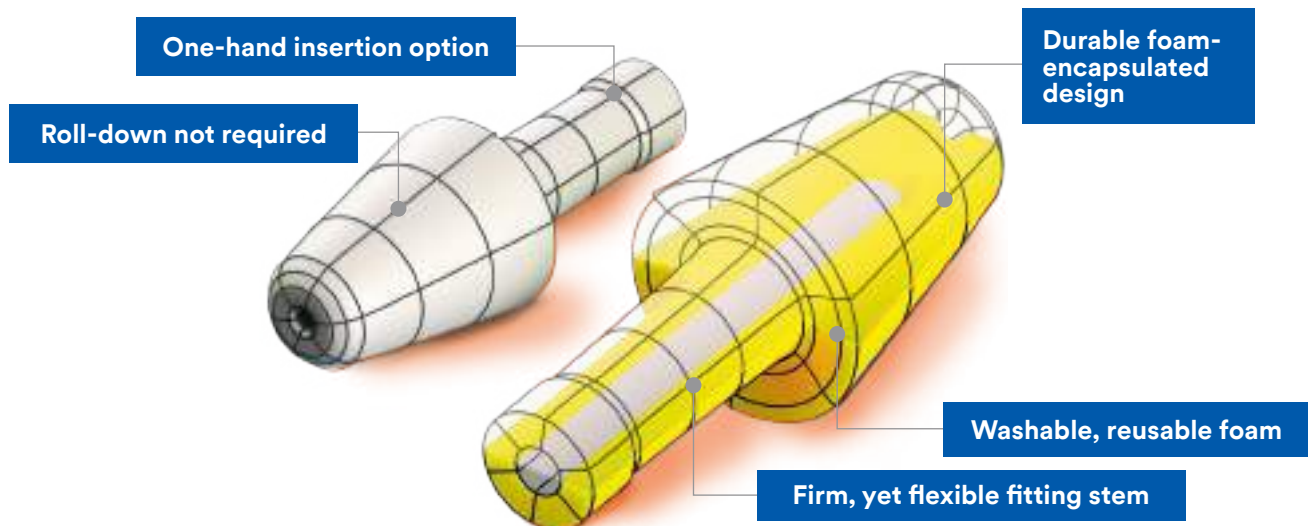
Breakthrough innovations in hearing protection don't happen every day. That's why we're excited to introduce the 3M™ E-A-R™ Flexible Fit Earplug. It's the first washable foam earplug and the first earplug that offers NRR 25 dB using a one-hand insertion, or NRR 30 dB with two-hand insertion.*



First washable foam

The 3M™ E-A-R™ Flexible Fit Earplug has a patented foam formulation which makes the earplug fully washable and reusable for up to two weeks. The soft foam tip and flexible foam-covered fitting stem allows easy insertion into the ear canal using one or two hands.

The shape of the earplug tip along with the soft conforming foam helps to provide a snug yet comfortable fit that helps reduce exposure to hazardous noise levels. The no roll-down design of the foam tip helps keep earplug tips clean when hands are dirty. 3M™ E-A-R™ Flexible Fit Earplugs are fit-testable with the 3M™ E-A-Rfit™ Dual-Ear Validation System.*



| Ordering Information | | |
|----------------------|---|---------------------------------------|
| Product No. | Description | Noise Reduction Rating (NRR) |
| 328-1000 | 3M™ E-A-R™ Flexible Fit Uncorded Earplugs, in Polybag | 25 dB (one hand) 30 dB (two hands) |
| 328-10001 | 3M™ E-A-R™ Flexible Fit Corded Earplugs, in Polybag | |

* 3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to variation in hearing protector fit, fitting skill and motivation of the user. If the NRR is used, 3M recommends that it be reduced by 50% or in accordance with applicable regulations. Noise Reduction Rating (NRR) 25 dB for one-hand insertion and 30 dB for two-hand insertion.

Earplugs

Roll Down Earplugs



3M™ E-A-Rsoft™ SuperFit™ 33 Uncorded Earplugs

- Product of choice by most customer.
- Proprietary fitting ring assures excellent protection.
- Moisture resistant dermatological safe foam is not irritating.
- Slow recovery PVC foam provides comfort with low pressure.
- NRR 33 dB.

| Product | Description |
|----------|--|
| 312-1256 | 3M™ E-A-Rsoft™ SuperFit™ 33 Uncorded Earplugs, in Poly Bag |



3M™ E-A-Rsoft™ Yellow Neons™ Earplugs

- Proven size, shape, and foam.
- Corded and uncorded in a variety of individual packs.
- Moisture-resistant, dermatologically-safe foam is not irritating.
- Slow recovery PVC foam provides comfort with low pressure.
- NRR 33 dB.

| Product | Description |
|----------|---|
| 312-1250 | 3M™ E-A-Rsoft™ Yellow Neons™ Uncorded Earplugs, in Poly Bag |
| 311-1250 | 3M™ E-A-Rsoft™ Yellow Neons™ Corded Earplugs, in Poly Bag |



3M™ E-A-R™ TaperFit™ 2 Earplugs

- Soft, smooth design for ultimate comfort.
- Self-adjusting foam provides low pressure seal.
- The yellow color of the earplugs is your assurance of proven protection.
- NRR 32 dB.

| Product | Description |
|----------|---|
| 312-1219 | 3M™ E-A-R™ TaperFit™ 2 Uncorded Earplugs, in Poly Bag |
| 312-1223 | 3M™ E-A-R™ TaperFit™ 2 Corded Earplugs, in Poly Bag |



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 |
|---------|------------------------------------|
| 1100 | 3M™ Uncorded Earplugs, in Poly Bag |
| 1110 | 3M™ Corded Earplugs, in Poly Bag |



3M™ E-A-R™ One Touch™ Earplugs Dispensers

- Proprietary “No Waste Funnel” allows users to reuse base and dispenser.
- This dispenser offers the most reliable delivery system in the world.
- This dispenser base can be used as a table top unit or wall mounted.
- Easy access for the user from all sides.
- No waste of packaging for individual earplugs.

| Product | Description | NRR |
|----------|---|-------|
| 391-0000 | 3M™ E-A-R™ One Touch™ Earplug Dispenser | - |
| 391-1001 | 3M™ E-A-R™ Classic™ One Touch™ Refill Earplugs | 29 dB |
| 391-1004 | 3M™ E-A-Rsoft™ Yellow Neons™ One Touch™ Refill Earplugs | 33 dB |
| 391-1002 | 3M™ E-A-R™ Classic™ SuperFit™ 30 One Touch™ Refill Earplugs | 30 dB |
| 391-1254 | 3M™ E-A-Rsoft™ SuperFit™ One Touch™ Refill Earplugs | 33 dB |
| 391-1100 | 3M™ 1100 One Touch™ Refill Earplugs | 29 dB |

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 |
|----------|---|
| 340-4004 | 3M™ E-A-R™ UltraFit™ Corded Earplugs, in Poly Bag |
| 340-4002 | 3M™ E-A-R™ UltraFit™ Corded Earplugs, in Carry Case |



3M™ E-A-R™ UltraFit™ Metal Detectable Earplugs

- Metal detectable for extra safety especially food and beverage market.
- NRR 25 dB.

| Product | Description |
|----------|---|
| 340-4007 | 3M™ E-A-R™ UltraFit™ Metal Detectable Earplugs with Metal Detectable Cord |



3M™ Corded Reusable Earplugs 1270/1271

- 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 (1271 only).
- NRR 24 dB.

| Product | Description |
|---------|---|
| 1270 | 3M™ Corded Reusable Earplugs, in Poly Bag |
| 1271 | 3M™ Corded Reusable Earplugs, in Carry Case |



3M™ Corded Reusable Earplugs 1292 / 1293

- New softer material for improved wearer comfort and ease of insertion.
- Includes storage case which keeps the plugs clean and protected (1293 only).
- NRR 25 dB.

| Product | Description |
|---------|---|
| 1292 | 3M™ Corded Reusable Earplugs, in Poly Bag |
| 1293 | 3M™ Corded Reusable Earplugs, in Carry Case |

3M™ Peltor™ Earmuffs

OPTIME™ Series

- Optime™ Classification System for easy product selection
- Just match the Optime number (95, 98, 101, 105) to the measured noise level of the workstation.
- Proprietary liquid & foam-filled cushions for better seal and lower pressure.
- Simple height adjustment.
- Wide ear cushions for comfort.
- Padded, wide headband for extended wear.
- Stainless steel headband wires.
- Four-point suspension to help distribute cushion pressure evenly.



3M™ Peltor™ Optime™ 95 Series Earmuffs

- Slim design for high comfort and continuous wear.
- Flexible insertion tip.

| Product | Description |
|---------|---|
| H6A/V | 3M™ Peltor™ Optime™ 95 Series Earmuff, low profile over-the-head, Beige, NRR 21 dB, CSA Class B |
| H6F/V | 3M™ Peltor™ Optime™ 95 Series Earmuff, low profile over-the-head folding, Beige, NRR 21 dB, CSA Class B |
| H6P3E/V | 3M™ Peltor™ Optime™ 95 Series Earmuff, low profile cap attached, Beige, NRR 21 dB, CSA Class A |
| HY6/V | Replacement Hygiene Kit, 1 pr |



3M™ Peltor™ Optime™ 98 Series Earmuffs

| Product | Description |
|---------|---|
| H9A | 3M™ Peltor™ Optime™ 98 Series Earmuff, over-the-head, Yellow, NRR 25 dB |
| H9P3E | 3M™ Peltor™ Optime™ 98 Series Earmuff, helmet attached, Yellow, NRR 23 dB |
| HY3 | Replacement Hygiene Kit, 1 pr |



3M™ Peltor™ Optime™ 101 Series Earmuffs

| Product | Description |
|---------|---|
| H7A | 3M™ Peltor™ Optime™ 101 Series Earmuff, over-the-head, Green, NRR 27 dB |
| H7P3E | 3M™ Peltor™ Optime™ 101 Series Earmuff, cap attached, Green, NRR 24 dB |
| HY7 | Replacement Hygiene Kit, 1 pr |



3M™ Peltor™ Optime™ 105 Series Earmuffs

Twin cup design minimizes resonance, thus achieving maximum high and low frequency attenuation.

| Product | Description |
|---------|--|
| H10A | 3M™ Peltor™ Optime™ 105 Series Earmuff, over-the-head earmuff, NRR 30 dB |
| H10B | 3M™ Peltor™ Optime™ 105 Series Earmuff, behind-the-head dual cup, NRR 29 dB |
| H10P3E | 3M™ Peltor™ Optime™ 105 Series Earmuff, cap attached dual cup, NRR 27 dB |
| H10A HV | 3M™ Peltor™ Optime™ 105 Series Earmuff, Hi-Viz over-the-head dual cup, NRR 30 dB |
| HY54 | Replacement Hygiene Kit, 1 pr |

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.

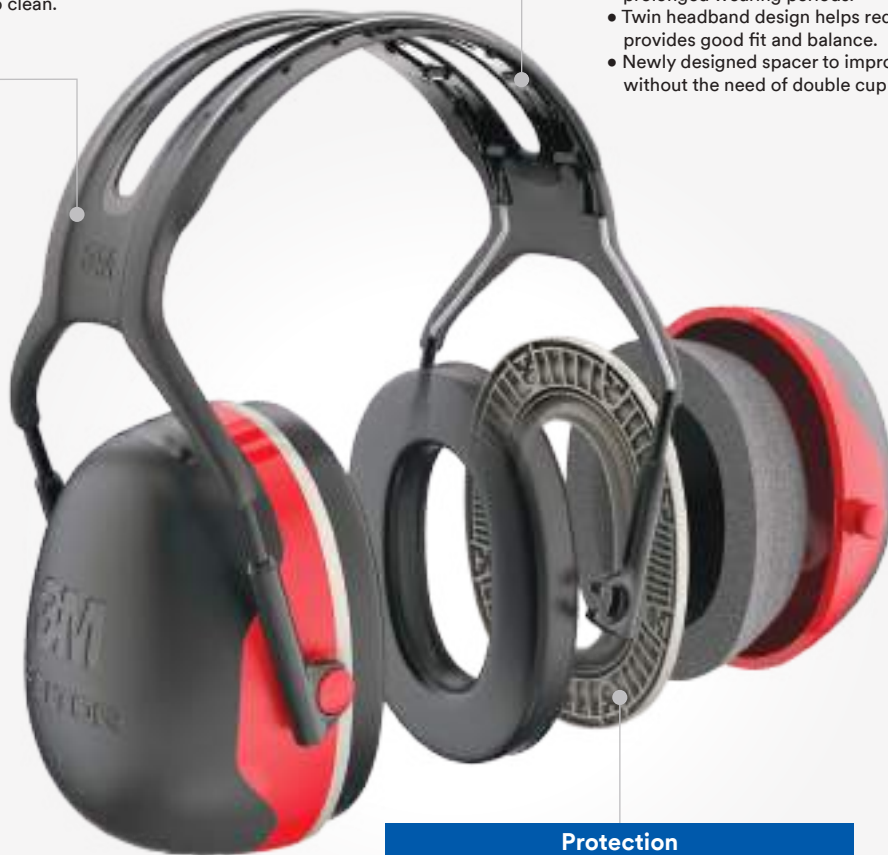


Design

- 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™ 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.

| 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 |
| X4P51E | 3M™ Peltor™ X Series, Full Brim Hard Hat-Attached Earmuff, NRR 26 dB |
| HYX4 | Replacement Hygiene Kit, 1 pr |



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.

| 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, 1 pr |





3M™ Peltor™ ProTac III Headset


- Environmental microphones for level-dependent hearing protection and ambient listening.
- 3.5mm listen-only stereo input (limited to 82dB) for connection to external devices (e.g. cell phone, two-way radio, ipod).
- Voice guided menu system to prevent you from taking the headset off
- Auto power off, the headset will turn off after 4 hrs of non-use to save battery.
- Low-battery warning to inform you when to change batteries
- To reduce corrosion caused by sweat and moisture, the electronics are located in a separate compartment of the cup
- Available in both in headband and hard hat attached versions (black).
- Complies to ANSI S3.19.

| Product | Description |
|-------------|---|
| MT13H220A | 3M™ Peltor™ ProTac III Slim Headset, Headband, NRR 21 dB |
| MT13H220P3E | 3M™ Peltor™ ProTac III Slim Headset, Hard Hat-Attached, NRR 19 dB |
| MT13H221A | 3M™ Peltor™ ProTac III Headset, Headband, NRR 26 dB |
| MT13H221P3E | 3M™ Peltor™ ProTac III Headset, Hard Hat-Attached, NRR 23 dB |
| HY220 | Replacement Hygiene Kit, 1 pr |

3M™ Hearing Protection Product Reference Guide

| Category | Product | Neck Corded Option | Moisture Resistant | Slow Recovery Foam | Metal Detectable | Pillow Pack | Hi-Viz | Users wears glove or has dirty hands | Refillable earplug dispenser option | Noise Reduction Rating (NRR) |
|------------------------------------|---|--------------------|--------------------|--------------------|------------------|-------------|--------|--------------------------------------|-------------------------------------|---------------------------------------|
| Roll Down Foam Disposable Earplugs |  Classic™ SuperFit™ 33 Earplugs | • | • | • | | • | • | | • | 33 dB |
| |  E-A-Rsoft™ Yellow Neons™ Earplugs | • | | • | | | • | | • | 33 dB |
| |  TaperFit™ Earplugs | • | | • | | | • | | | 32 dB |
| |  1100 / 1110 Earplugs | • | | • | | | | | • | 29 dB |
| Washable Earplugs |  E-A-R Flexible Fit Earplugs | • | • | | | | • | • | | 25 dB (one hand) 30 dB (two hands) |
| Reusable Earplugs |  UltraFit™ Earplugs | • | • | | • | | | • | | 25 dB |
| |  1270 / 1271 Earplugs | • | • | | | | | • | | 24 dB |
| |  1292 / 1293 Earplugs | • | • | | | | | • | | 25 dB |

3M™ Hearing Protection Product Reference Guide

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

* Di-electric only available on headband

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

With the Malaysia New Noise Exposure Regulation 2019, stricter control on excessive noise level (action level) and noise exposure limit (permissible exposure limit) in the workplace has been implemented and enforced. Besides that, workers' who are exposed to noise hazards are also required to be trained annually and correct personal hearing protector (PHP) to be provided in accordance with the selection guide stated in the Industry Code of Practice for Management of Occupational Noise Exposure and Hearing Conservation 2019 (ICOP). 3M™ E-A-Rfit™ Dual-Ear Validation System act as a proactive tool to prepare you in complying with this regulation. Find out more about how this system can help you below or contact 3M at 603 7884 2990 for more information and demonstration.



The right fit test. Right now.

- Tests both ears simultaneously in under 5 second.
- 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)*, 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.



* 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



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.

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.

Pass - 29 dB



A "pass" result means the hearing protection fits properly and provides sufficient protection for the worker's specific job.





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.

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.

Designed to perform.

Curved temples for enhanced security

Our design applies pressure on the less sensitive back of the head instead of the temples, achieving a comfortable fit even during rapid head movement.

3M Pressure Diffusion Temple Technology

3M's innovative temple design features slotted ribs that provide comfortable pressure equalization, allowing the temples to flex and self-adjust to the size and shape of the wearer's head.

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.

Uncoated



Microscopic water droplets bead up, forming condensation and fog which obscure vision.



3M™ Scotchgard™ Protector Anti-Fog Coating



Reduced contact angle flattens water beads into a thin, transparent film that allows light to pass through.



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.

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

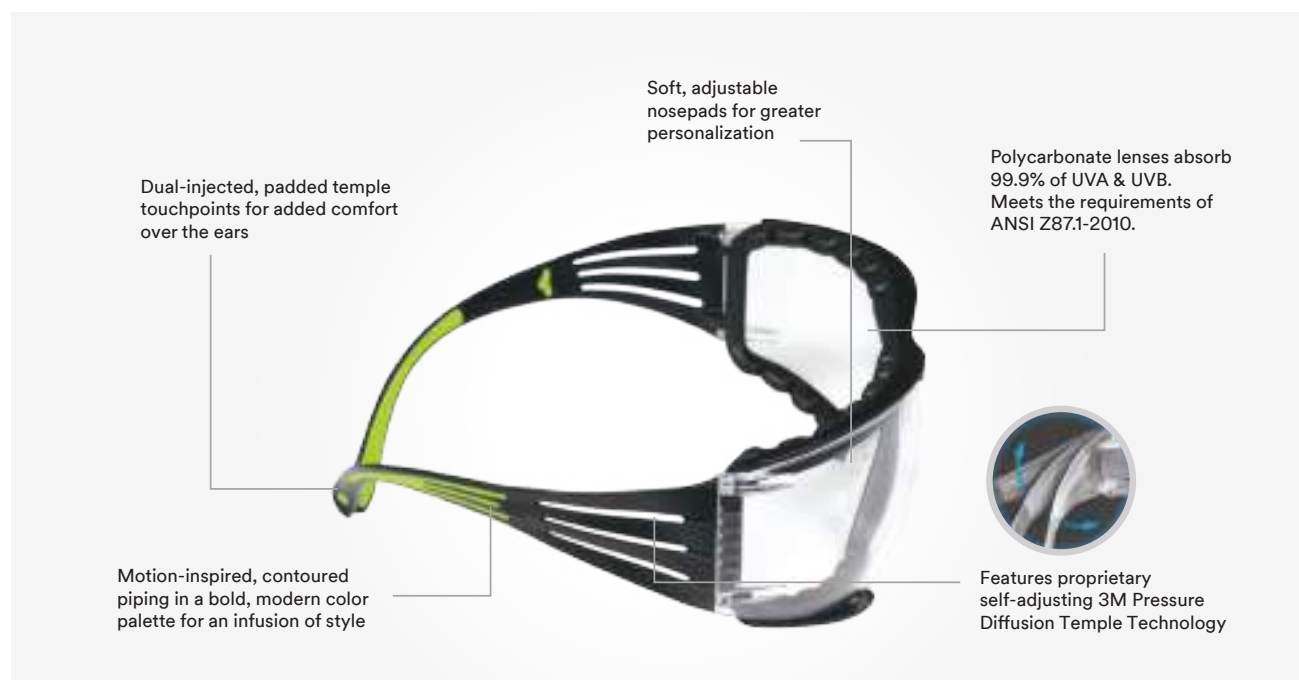


Gray

| 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-BLU | 3M™ SecureFit™ Protective Eyewear, Blue/Blue, Clear 3M™ Scotchgard™ Protector Anti-Fog Coating Lens | Clear | 3M™ Scotchgard™ AF |
| SF302SGAF-BLU | 3M™ SecureFit™ Protective Eyewear, Blue/Blue, Gray 3M™ Scotchgard™ Protector Anti-Fog Coating Lens | Gray | 3M™ Scotchgard™ AF |

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



Clear



Gray



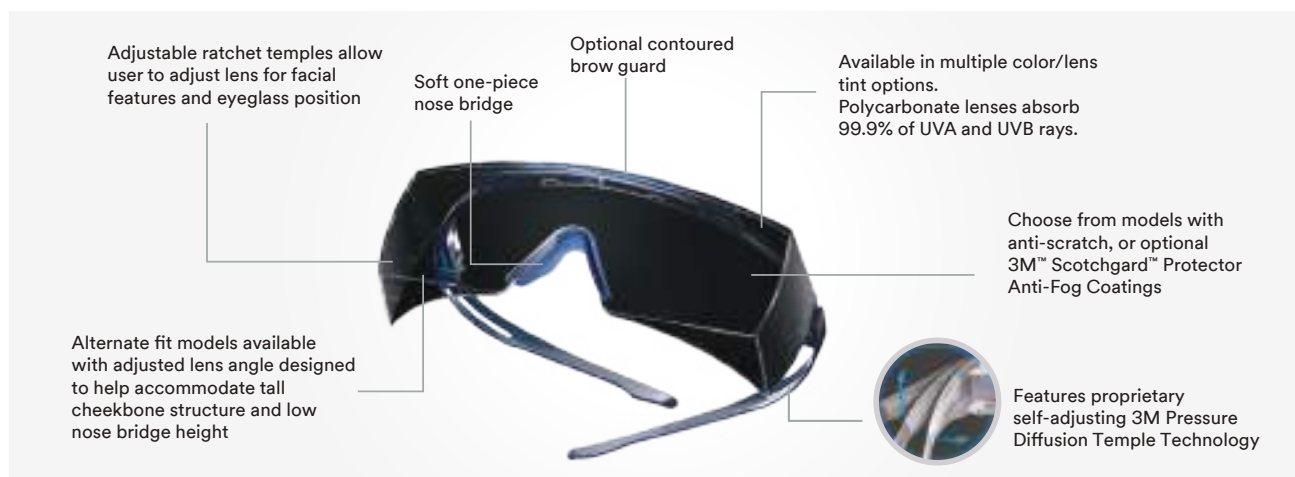
Indoor / Outdoor

| 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 |
| SF-FOAM | 3M™ SecureFit™ Replacement Foam Gasket | - | - |
| SF401SGAF-BLU | 3M™ SecureFit™ Protective Eyewear, Blue/Blue, Clear 3M™ Scotchgard™ Protector Anti-Fog Coating Lens | Clear | 3M™ Scotchgard™ AF |
| SF402SGAF-BLU | 3M™ SecureFit™ Protective Eyewear, Blue/Blue, Gray 3M™ Scotchgard™ Protector Anti-Fog Coating Lens | Gray | 3M™ Scotchgard™ AF |
| SF407SGAF-BLU | 3M™ SecureFit™ Protective Eyewear, Blue/Blue, Indoor / Outdoor 3M™ Scotchgard™ Protector Anti-Fog Coating Lens | Indoor/ Outdoor | 3M™ Scotchgard™ AF |

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: **SF3701AAS-BLU**
 Lens: **Clear**
 Frame: **Blue/Blue**
 Coating: **Anti-Scratch**



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



Product ID: **SF3707ASGAF-BLU**
 Lens: **Indoor/Outdoor**
 Frame: **Blue/Blue**
 Coating: **3M™ Scotchgard™ Protector Anti-Fog**



Product ID: **SF3702AAS-BLU**
 Lens: **Gray**
 Frame: **Blue/Blue**
 Coating: **Anti-Scratch**



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



Product ID: **SF3717AS-BLK**
 Lens: **IR 1.7 Gray**
 Frame: **Clear/Black**
 Coating: **Anti-Scratch**



Product ID: **SF3730AS-BLK**
 Lens: **IR 3.0 Gray**
 Frame: **Clear/Black**
 Coating: **Anti-Scratch**



Product ID: **SF3750AS-BLK**
 Lens: **IR 5.0 Gray**
 Frame: **Clear/Black**
 Coating: **Anti-Scratch**

| 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 |
| SF3707ASGAF-BLU | 3M™ SecureFit™ 3700 Series, Blue/Blue, Indoor/Outdoor Gray OTG 3M™ Scotchgard™ Protector Anti-Fog Coating Lens | Indoor/Outdoor Gray | 3M™ Scotchgard™ AF |
| SF3701AAS-BLU | 3M™ SecureFit™ 3700 Series, Blue/Blue, Clear OTG Anti-Scratch Lens | Clear | AS |
| SF3702AAS-BLU | 3M™ SecureFit™ 3700 Series, Blue/Blue, Gray OTG Anti-Scratch Lens | Gray | AS |
| SF3717AS-BLK | 3M™ SecureFit™ 3700 Series, Clear/Black, IR 1.7 Gray OTG Anti-Scratch Lens | IR 1.7 Gray | AS |
| SF3730AS-BLK | 3M™ SecureFit™ 3700 Series, Clear/Black, IR 3.0 Gray OTG Anti-Scratch Lens | IR 3.0 Gray | AS |
| SF3750AS-BLK | 3M™ SecureFit™ 3700 Series, Clear/Black, IR 5.0 Gray OTG Anti-Scratch Lens | IR 5.0 Gray | AS |

3M™ Value Safety Eyewear Virtua™ Series

3M™ Virtua™ Sport Asian Fit Eyewear

Sporty styling for better compliance.

- Economical eyewear with wrap-around design
- Comfortable, ultra light frame
- High Impact polycarbonate filters 99.9% UV
- Lightweight
- Meets ANSI Z87.1-2003 and CSA Z94.1 standards

| Model | Description | Lens |
|----------------|-------------------|---------------------|
| 10434-00000-20 | Safety spectacles | Clear Anti-Fog Lens |



3M™ Value Safety Eyewear Nuvo™ Series

3M™ Nuvo™ Safety Eyewear

'Retro' inspired eyewear that provides the protection that you need.

- Integral side shields and brow bar for profile protection
- Adjustable temples length
- Soft, adjustable nose bridge
- Meets ANSI Z87.1-2003 and CSA Z94.3 standards
- Available with reader option

| Model | Description | Lens |
|----------------|---|---------------------|
| 11411-00000-20 | Safety spectacles with translucent Gray Top | Clear Anti-Fog Lens |
| 11412-00000-20 | Safety spectacles with translucent Gray Top | Gray Anti-Fog Lens |



3M™ Overspectacle

3M™ 1611 Overspectacle

Low cost overspectacles, designed to fit over most prescription glasses. Ideal for visitors. Uncoated polycarbonate lens provides impact protection.

- Practical
- AS/NZS1337 Medium Impact Rating
- Polycarbonate lens absorbs 99.9% UV light
- Wraparound coverage with side shields
- Lightweight for comfort

| Model | Description | Lens |
|-------|--------------------|------------------------|
| 1611 | Visitor Spectacles | Clear frame/clear lens |



3M™ Safety Goggles

3M™ 1621AF Safety Goggle

- Have polycarbonate lenses to protect against chemical splashes.
- The pliable vinyl frames provide a comfortable fit and vents enhance air circulation to prevent fogging.

| Model | Description | Lens |
|--------|---------------|---------------------------------|
| 1621AF | Safety Goggle | Polycarbonate and Anti-Fog Lens |



3M™ 1623AF Safety Goggle

- Feature a wrap-around design for greater peripheral vision, Anti-Fog coating to minimize fogging.
- Hard-coated polycarbonate lens offering scratch resistance and 99% reduction of ultraviolet radiation (UVA and UVB) from natural sunlight.

| Model | Description | Lens |
|--------|---------------|-----------------------------|
| 1623AF | Safety Goggle | Anti-Fog and Hard-Coat Lens |



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 |
|-----------|---------------|---|
| GG501SGAF | 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 or call 3M PSD at 603-7884 2990.



3M™ Hard Hats

3M™ M-600, 3M™ H-700 & 3M™ H-800 Series Hard Hats

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

3M™ SecureFit™ 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.



reddot design award
winner 2019

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), as well as EN 50365 1000 V standard
- Climbing helmet-inspired design
- Customise your fit with multiple levels of vertical adjustment
- Works with a variety of 3M faceshields, earmuffs, and other accessories
- Optional vents



3M™ SecureFit™ Safety Helmet X5000 Series

- Ventilation with optional reflective strips
- 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, and EN 50365 (1000Vac).*
- Available in 8 colours



3M™ SecureFit™ Safety Helmet X5500 Series

- Optional ventilation on sides and back
- Certified to EN 397 and EN 50365 (1000Vac)** standards
- Available in 8 colours



Customisable
A variety of 3M accessories are available to meet specific job requirements.



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.

* Depending on chin strap configuration. Not reflective if 1000Vac.

** Not to be used with reflective material or magnetic buckle chin strap.

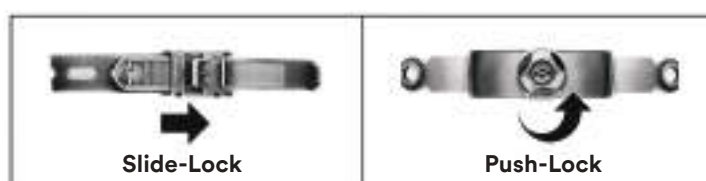
3M™ M-600 Series Hard Hat

3M™ M-600 Series Hard Hat shell made of acrylonitrile butadiene styrene (ABS) material, embedded with adjustable ventilation valves offers versatile working environment. These hard hat provides protection from small falling objects striking the top of the hard hat. The hard hat is comfortable and tough. This hard hat feature accessories slot to accommodate cap mounted ear muff and face shield.



Features and Specification:

- Comfortable, 6-point suspension with height adjustment.
- Available in **Slide-Lock** and **Push-Lock** suspension.



- Embedded with adjustable ventilation valves - Non-vented and Vented hard hat option.
- Short brim for better upward visibility.
- Meets MS 183 : 2001.
- Slot for accessories attachment and attached with chin strap.
- All easy exchange shields mount quickly to 3M™ Headgear without tools, snaps or cams.
- Impact resistance.

| Model | Description | Color | 4-Point Suspension |
|--------|------------------------|--------|--------------------|
| M-601S | 3M™ Hard Hat M-601S | White | Slide-Lock |
| M-602S | 3M™ Hard Hat M-602S | Yellow | Slide-Lock |
| M-601R | 3M™ Hard Hat M-601R | White | Push-Lock Ratchet |
| M-602R | 3M™ Hard Hat M-602R | Yellow | Push-Lock Ratchet |
| 1990 | 3M™ Elastic Chin Strap | - | - |

3M™ H-700 Series Hard Hat

The 3M™ H-700 Series Hard Hat offers a potent blend of protection and wearability. The short-brim design safeguards wearers without weighing them down. A 4-point ratchet or pinlock suspension system with brow pad, height adjustment and optional ventilation delivers comfort through the longest shift.

The trusted 3M name and our adherence to rigorous safety standards mean that this versatile hard hat is designed to give you superior protection.



Easy-to-turn ratchet operates smoothly, allows you to adjust in small degrees and retains its fit.



Feature and Options

- Comfortable, 4-point pinlock or ratchet suspension with height adjustment.
- Replaceable brow pad.
- Vented hard hat option.
- Customized logo options.
- Compliant when worn in the forward and reverse donning positions.
- Short brim for better upward visibility.
- Slots for accessory attachment.

Color Available:



Optional integrated eyewear attaches to suspension for convenient, retractable eye protection



Replaceable brow pad



4 and 6 point suspension combinations



Vented hard hat option



Slots for accessory attachment



Optional earmuffs easily snap into integrated receptors on the hard hat

Lightweight Design. Heavy Duty Protection.

3M™ H-700 Series Hard Hat is comfortable, tough and lightweight. Designed with a low profile for improved stability and balance, the hard hat provides ultimate comfort and protection from small falling objects striking the top of the hard hat. These hard hats feature accessory slots to accommodate 3M's cap-mounted ear muffs, headgear, faceshields and welding helmets. The 3M™ H-700 Hard Hat (Non-Vented) meets the requirements of ANSI/ISEA Z89.1-2009 Type I, Class C, G and E. The 3M™ H-700 Vented Hard Hat meets the requirements of ANSI/ISEA Z89.1 Type I, Class C.

| Model | Description | Color | 4 - Point Suspension |
|-----------|--|---------------|----------------------|
| H-701P | 3M™ Hard Hat H-701 P | White | Pinlock |
| H-702P | 3M™ Hard Hat H-702 P | Yellow | Pinlock |
| H-703P | 3M™ Hard Hat H-703 P | Blue | Pinlock |
| H-704P | 3M™ Hard Hat H-704 P | Green | Pinlock |
| H-707P | 3M™ Hard Hat H-707 P | Bright Orange | Pinlock |
| H-708P | 3M™ Hard Hat H-708 P | Gray | Pinlock |
| H-709P | 3M™ Hard Hat H-709 P | Bright Yellow | Pinlock |
| H-710P | 3M™ Hard Hat H-710 P | Navy Blue | Pinlock |
| H-701R | 3M™ Hard Hat H-701 R | White | Ratchet |
| H-702R | 3M™ Hard Hat H-702 R | Yellow | Ratchet |
| H-704R | 3M™ Hard Hat H-704 R | Green | Ratchet |
| H-705R | 3M™ Hard Hat H-705 R | Red | Ratchet |
| H-706R | 3M™ Hard Hat H-706 R | Orange | Ratchet |
| H-707R | 3M™ Hard Hat H-707 R | Bright Orange | Ratchet |
| H-708R | 3M™ Hard Hat H-708 R | Gray | Ratchet |
| H-709R | 3M™ Hard Hat H-709 R | Bright Yellow | Ratchet |
| H-701V | 3M™ Vented Hard Hat H-701V | White | Ratchet |
| H-702V | 3M™ Vented Hard Hat H-702 R | Yellow | Ratchet |
| H-703V | 3M™ Vented Hard Hat H-703 R | Blue | Ratchet |
| H-704V | 3M™ Vented Hard Hat H-704 R | Green | Ratchet |
| H-701V-UV | 3M™ Vented Hard Hat with Uvicator | White | Ratchet |
| H-702V-UV | 3M™ Vented Hard Hat with Uvicator | Yellow | Ratchet |
| H-701R-UV | 3M™ Hard Hat with Uvicator | White | Ratchet |
| H-702R-UV | 3M™ Hard Hat with Uvicator | Yellow | Ratchet |
| H-703R-UV | 3M™ Hard Hat with Uvicator | Blue | Ratchet |
| H-704R-UV | 3M™ Hard Hat with Uvicator | Green | Ratchet |
| H-709R-UV | 3M™ Hard Hat with Uvicator | Bright Yellow | Ratchet |
| H-700-RS4 | 3M™ Hard Hat H-700-RS4 Series Suspension Replacement | - | Ratchet Standard |
| H-700-PS4 | 3M™ Hard Hat H-700-PS4 Series Suspension Replacement | - | Pinlock Standard |
| H-700-BP | 3M™ Hard Hat Replacement Brow-Pad | - | - |
| 1990 | 3M™ Elastic Chin Strap | - | - |

3M™ H-800 Series Hard Hat

With engineering advancements in suspension design, a lightweight shell, and a patented UV indicator, this hard hat helps alleviate workers' frustrations with hard hats on the job. The new hard hat innovations in comfort and protection you expect from 3M.



Feature and Options

- Made in U.S.A. with globally sourced material.
- Lightweight comfort with high impact resistance.
- 3M™ H-800 Series Hard Hat are approved to CSA Z94.1 Industrial Head Protection Standards and meet ANSI/ISEA Z89.1-2009 Type I Class C, G and E requirements.

Colors Available:



Optimized comfort
with 3 level of adjustment



4 point suspension



Optional venting
encourages airflow



Smooth, easy turning
ratchet suspension



Absorbent brow pad provides comfort
and ventilation



Optional elastic chinstrap for
additional security

3M™ Uvicator™ Sensor*

This sensor lets wearer know when to replace hard hat due to UV exposure (optional).

* Available in all H-700 and H-800 series hard hats



| Model | Description | Color | 4 - Point Suspension |
|-----------|-------------------------------------|---------------|----------------------|
| H-801R | 3M™ H-800 Series Full Brim Hard Hat | White | Ratchet |
| H-802R | 3M™ H-800 Series Full Brim Hard Hat | Yellow | Ratchet |
| H-803R | 3M™ H-800 Series Full Brim Hard Hat | Blue | Ratchet |
| H-804R | 3M™ H-800 Series Full Brim Hard Hat | Green | Ratchet |
| H-805R | 3M™ H-800 Series Full Brim Hard Hat | Red | Ratchet |
| H-806R | 3M™ H-800 Series Full Brim Hard Hat | Orange | Ratchet |
| H-807R | 3M™ H-800 Series Full Brim Hard Hat | Hi-Viz Orange | Ratchet |
| H-808R | 3M™ H-800 Series Full Brim Hard Hat | Gray | Ratchet |
| H-809R | 3M™ H-800 Series Full Brim Hard Hat | Hi-Viz Yellow | Ratchet |
| H-810R | 3M™ H-800 Series Full Brim Hard Hat | Navy Blue | Ratchet |
| H-811R | 3M™ H-800 Series Full Brim Hard Hat | Tan | Ratchet |
| H-700-RS4 | 3M™ Hard Hat Suspension Replacement | - | Ratchet Standard |
| H-700-BP | 3M™ Hard Hat Replacement Brow Pad | - | - |
| 1990 | 3M™ Elastic Chin Strap | - | - |



3M™ Face Protection Solutions

3M™ Face Protection Solutions are engineered to be comfortable, convenient, and functional to help keep professionals and DIYers safe and confident. Helps protect the eyes and face against certain impact and chemical hazards. Designed to provide comprehensive eye and face protection in even the most demanding work environments. With 3M™ Professional Faceshields, we've got you covered, so you can focus on getting the job done right.

Advanced protection from a leader in safety

The 3M brand is synonymous with innovation and technical precision. We're at the leading edge of head and face protection because we have our ear to the ground. We understand the nuanced needs of different market segments, and we're constantly elevating the standards of personal safety for a wide range of industries.

We design and produce hard hats, faceshields, combination systems and accessories to meet a diverse spectrum of needs. We're committed to producing consistently reliable, user-friendly products – and that commitment is demonstrated by each offering in our varied catalog.

Our head and face products help deliver protection, comfort and performance.



3M offers complete solutions for head and face protection. Components can be combined to accommodate the needs of your application or environment.

3M™ Hard Hats



Engineered for extended comfort and durability, cap-style brim and full-brim hard hats work as hard as the people who wear them.



3M™ Faceshields



Designed for industries requiring face coverage, our faceshields offer reliable protection with versatile features.

3M™ Headgear and 3M™ Visors

The 3M line of headgear and visors are the first line of head and eye defense against heat, debris and chemicals. We designed innovative headgear and visors to be durable and comfortable.

The line features several interchangeable pieces for customization. Available features include ratchet suspension, anti-fog coating, multiple faceshield tint and material options, and easy assembly. All of our faceshields feature the reliability and performance you expect from 3M.

3M created faceshields for various work applications and environments. Select your headgear, and pair it with a variety of visor-and-faceshield options.



3M™ Headgear Combinations

AO TUFFMASTER™ Series

3M™ Headgear/Window Combo System

- High-strength thermoplastic crown protector provides impact resistance over a wide range of temperatures
- Resistance over a wide range of temperatures
- Protection in a variety of work situations
- Meets ANSI Z87.1-2003 standards

| Model | Product Name |
|-------------|---|
| 82782-00000 | 3M™ H8A Deluxe Ratchet Headgear/ W96 Clear Propionate Faceshield |
| 82783-00000 | 3M™ H8A Deluxe Ratchet Headgear/ W96 Clear Polycarbonate Faceshield |



3M™ Headgear/Window Combo System with Chin Protector

- Headgear and chin protector assembly helps deliver reliable face protection when extra chin protection is required
- Chin protector is made of high impact polycarbonate
- Only to be used with WP98 Visor (82543-00000), sold separately

| Model | Product Name |
|-------------|---|
| 82521-10000 | 3M™ Ratchet Headgear with 3M™ Clear Chin Protector HCP8, Visor Not Included |
| 82542-0000 | 3M™ Replacement Clear Chin Protector CP8 |



3M™ Headgear

Headgear features a patented, unique system allowing window replacement in seconds.

- High strength thermoplastic crown
- Provides excellent impact resistance
- No snaps, bands or cams; allows for easy window replacement
- Five position crown strap for additional support and comfort
- Meets ANSI Z87.1-2003 standards

| Model | Product Name |
|-------------|-------------------------------------|
| 82500-00000 | 3M™ H4 Economy Headgear, Pin-Lock |
| 82501-00000 | 3M™ H8A Ratchet Headgear |
| 82502-00000 | 3M™ H18 Cap Mount Hard Hat Headgear |



3M™ Universal Headgear

This headgear fits AOSafety and Peltor™ Hardhats as well as select hardhats by North, Protector Safety, Uvex, Jackson, Bullard, ERB, MSA and Fibre Metal.

- Metal and Triax materials for high-heat applications
- Designed to fit all AOTuffmaster faceshield windows
- Quick-change feature allows for window replacement in seconds
- Exclusive attachment feature does not interfere with capmounted earmuffs
- Positive stop ratchet allows the window to stay in the up position and out of the field of vision, until lowered for viewing
- Meets ANSI Z87.1-2003 standards

| Model | Product Name |
|-------------|--|
| 82520-10000 | 3M™ H24M Universal Headgear For Hard Hat |



3M™ High Heat Headgear

Designed for full shift comfort, performance and high heat protection.

- Aluminum-infused surface reflects heat and maintains shape in high temperatures
- Lightweight and durable for long-wear comfort
- Quick-change feature allows for easy window replacement
- Meets ANSI Z87.1-2003 standards

| Model | Product Name |
|-------------|---|
| 82589-00000 | 3M™ H8A-S Aluminum Infused Ratchet Headgear |



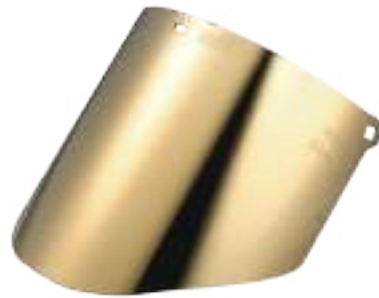
3M™ Visors

3M™ Total Performance Window

Gold plated faceshields designed for higher heat applications.

- High impact polycarbonate faceshields with heat resistance up to 266°C and anti-glare
- Inside window surface is anti-fog coated
- Outside window surface is hard coated
- Window size 9" X 14.5" X .075"
- Meets ANSI Z87.1-2003 standards

| Model | Product Name |
|-------------|---|
| 82602-00000 | 3M™ WCP96G Gold Plated Clear Polycarbonate Window |
| 82604-00000 | 3M™ WCP96CG Gold Plated Dark Green Polycarbonate Window |



3M™ Faceshields

High impact faceshields designed to protect workers in metalworking, utilities, forestry and many other industries.

- Meets ANSI Z87.1-2003 standards



Flat 0.040" window

| Model | Product Name |
|-------------|---|
| 82582-00000 | 3M™ WP96X Wide Clear Polycarbonate Large Window |
| 82518-00000 | 3M™ WP96BAL Medium Green Aluminized Polycarbonate |
| 82509-00000 | 3M™ WP96CAL Dark Green Aluminized Polycarbonate |
| 82543-00000 | 3M™ WP98 Clear Polycarbonate |



Molded 0.080" window

| Model | Product Name |
|-------------|---|
| 82700-00000 | 3M™ W96 Clear Propionate Window |
| 82701-00000 | 3M™ WP96 Clear Polycarbonate Window |
| 82702-00000 | 3M™ WP96C Dark Green Polycarbonate Window |
| 82525-00000 | 3M™ WP96B Medium Green Polycarbonate Window |



3M™ Protective Coveralls

3M offers a board range of protective coveralls for use in a variety of industrial applications. Our range can meet the differing needs of customers in different markets. It could be level of protection, comfort, quality or appearance – 3M has something for everyone.

3M™ Protective Coveralls

Materials



SMS

Spunbound Meltblown Spunbound are robust breathable fabrics, designed to offer a good barrier against hazardous particles and limited liquid splashes.

Protective Coveralls 4515 and 4520



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










Multi-Layer Non-Microporous PE Laminate

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

Protective Coveralls 4570

Protection Types

| Category |  CE Category III | | | | | |
|-----------------|---|---|---|--|---|---|
| Symbol |  |  |  |  |  |  |
| Protection Type | Type 1 Gas Protection | Type 2 Non-Gas Protection | Type 3 Liquid Jet Protection | Type 4 Liquid Spray Protection | Type 5 Particle Protection | Type 6 Limited Liquid Splash Protection |
| Standard | | | EN 14605 (EN ISO 17491-3) | EN 14605 (EN ISO 17491-3) | EN ISO 13982-1 | EN 13034 (EN ISO 17491-4) |
| 3M Product Code | N/A | N/A | 4570 | 4570 | 4570, 4520, 4515, 4510 | |
| | HIGH ← PROTECTION → LOW | | | | | |

Additional Standards



Protection against micro-organisms (EN 14126)



Protection against micro-organisms (EN 14126) with exception of ISO 16604 (see table below)

| Tests for Protection against micro-organisms | 4510 | 4570 |
|---|---------------|---------------|
| ASTM 1671 bloodborne pathogen penetration resistance | - | Pass |
| ASTM 1670 Synthetic blood penetration resistance | - | Pass |
| ISO 16603 assesses resistances to penetration under pressure by synthetic blood (visual assessment) | Class 4 to 6 | Class 6 to 6* |
| ISO 16604 models resistance to viral penetration under pressure (biological assay) | Unclassified | Class 6 to 6* |
| ISO 22610 assesses resistances to wet bacterial penetration during mechanical contact | Class 6 to 6* | |
| ISO 22611 determines resistance to penetration by aerosols containing bacteria | Class 3 to 3* | |
| ISO 22612 assesses resistance to dry microbial penetration using talc contaminated with spores | Class 3 to 3* | |

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



Protection against nuclear particles (EN 1073-2)



Protection against nuclear particles (EN 1073-2) with exception of EN863 puncture resistance



Total Inward Leakage Class 1



Total Inward Leakage Class 2



Anti-static coating (EN 1149-5)



Refer to User Instructions for further information on anti-static compliance

3M™ Protective Coveralls

Designed for the demands of the Industrial Workplace.

Harmful dust. Light liquid splashes and sprays. Biological contaminants. These are just some of the dangers inherent in today's industrial workplace and 3M's disposable coveralls help to protect at-risk workers.

3M™ Protective Coveralls feature enhanced safety construction and material technologies that allow lightweight comfort. Used for a variety of applications, 3M™ Protective Coveralls offer quality and reliability: enabling workers to maneuver freely, and do their jobs efficiently. All 3M™ Protective Coveralls are certified to European standards.

3M™ 4510 Protective Coveralls*

Entry-level, splash and dust protection (Type 5/6)

- Constructed of laminated polypropylene having low-linting properties.
- Elastic hood, waist and ankles for convenient safe wear and movement.
- Two-way zipper with storm flap for extra convenience and protection from contaminants.
- Anti-static for increased protection in critical areas**.
- Individually packaged.



3M™ 4515 Protective Coveralls

Hazardous Dust Protection (Type 5/6)

- Helps provide basic protection against dusts and light liquid splashes.
- Elasticated waist, ankles, and wrists for convenience and freedom of movement.
- Two-way zipper with storm flap (including tape tabs) for convenience and additional protection.
- Individually packaged.



3M™ 4520 Protective Coveralls

Entry-level, splash and dust protection (Type 5/6)

- Constructed of laminated polypropylene having low-linting properties.
- Elastic hood, waist and ankles for convenient safe wear and movement.
- Two-way zipper with storm flap for extra convenience and protection from contaminants.
- Anti-static for increased protection in critical areas**.
- Individually packaged.



3M™ 4570 Protective Coveralls

Excellent levels of chemical hold out and mechanical strength (Type 3/4/5/6)

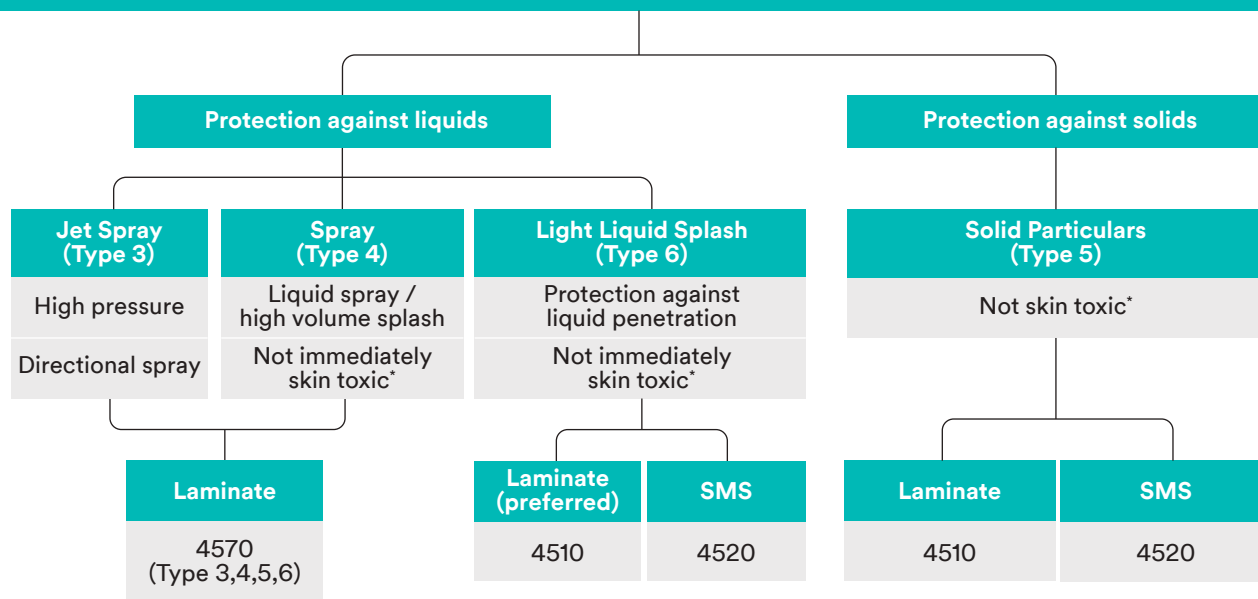
- Anti-static treated (inside only).
- Thumb loops for secure fit during overhead work.
- Three-panel hood design for a better fit and compatibility with other PPE.
- Two integrated storm-flaps combined with double color-coded zip to create a double seal for added convenience and extra protection.
- Large ring-pull zippers for easy donning and doffing when wearing gloves.
- Seams are taped with a multi layer co-extruded clear tape which offers a discreet finish and a consistent seal and barrier to hazardous dusts and high pressure liquid jets.
- Individually packaged.



** All apparel must be suitably grounded for anti-static treatment to be effective. In all cases, before selection of the most appropriate PPE, a risk assessment should be carried out by a competent person knowledgeable of the actual working conditions and limitations of PPE.

3M™ Protective Coveralls Product Category Selector

What type of chemically protective clothing do you need?
How would you characterize your exposure?



*Additional Features / Claims of 3M type 4/5/6 Coveralls

3M laminate products are generally considered to have better liquid repellency while the 3M™ SMS products are generally more breathable & abrasion resistant.




























Types per ISO 16602 (2007).

| Characteristics | Product Model |
|--------------------------|---------------|
| Low Linting | 4510 |
| Anti-Static | 4510, 4520 |
| Heat Stress | 4520 |
| Radioactive Particulates | 4510, 4520 |

⚠ Warning

Warning: This product selector is intended to provide guidance on key features of the 3M product range. The products shown highlight some of the products which may be considered but product suitability will depend on the particular situation. Product selection should always be made by a competent person knowledgeable of the actual working conditions and limitations of the PPE. This guide considers only skin protection – user must wear suitable additional PPE to protect against hazards to other parts of the body. In addition, once you have selected the garment ‘type’ and checked the chemical compatibility, you should also ensure the material is robust enough to withstand the mechanical risks of the environment.

Product Selector*

| 3M |  4510 |  4515 |  4520 |  4570 |
|---|---|--|--|---|
| Certification** | Category 3  TYPE 6 EN 13034  TYPE 5 EN ISO 13982-1  EN 1149-5  EN 1073-2  EN 14126 | Category 3  TYPE 6 EN 13034  TYPE 5 EN ISO 13982-1  EN 1073-2 | Category 3  TYPE 6 EN 13034  TYPE 5 EN ISO 13982-1  EN 1149-5  EN 1073-2 | Category 3  TYPE 6 EN 13034  TYPE 5 EN ISO 13982-1  TYPE 4 EN 14605  TYPE 3 EN 14605  EN 1149-5  EN 1073-2  EN 14126 |
| Material Weight | 47gsm | 50gsm | 43gsm | 92gsm |
| Sizes | L & XL | L & XL | L & XL | L & XL |
| Colors |  |  |  |  |
| Light-duty cleaning, warehousing, janitorial | | • | | |
| Asbestos inspection, site preparation, insulation | • | • | • | |
| Asbestos removal | • | • | • | |
| Cement manufacturing, metal grinding & polishing | • | • | • | |
| Light industrial cleaning, machine maintenance | • | • | • | |
| Pharmaceutical processing, handling toxic powders | • | | • | |
| Painting & coating, resins | • | | | |
| Cleanrooms | • | | | |
| Pesticide spraying | | | | • |
| Chemical mixing and handling | | | | • |
| Chemical spills, emergency response, decontamination, tank cleaning | | | | • |

• Popular choice

• Suitable for consideration

* In all cases, product selection should be based on a full risk assessment. Always read product use information. Use limitations and performance data should be considered to ascertain the protection required. If in doubt, contact a safety professional. This guide is only an outline. It should not be used as the only means for selecting protective clothing. Details regarding performance and limitations are set out on the packaging and user instructions. Before using any protective clothing, the wearer must read and understand the user instructions for each product. Specific country legislation must be observed. If in doubt, contact a safety professional or 3M – +603-7884 2990. Always check the compatibility of the suit material before selection. Please note that the personal protective equipment (PPE) shown highlight some of the products which may be considered. Sections of the most appropriate PPE will depend on the particular situation and should be made only by a competent person knowledgeable of the actual working conditions and the limitations of PPE.

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

*** Material meets standard requirement.

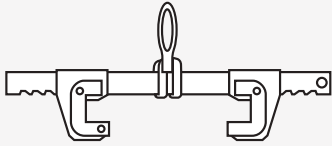



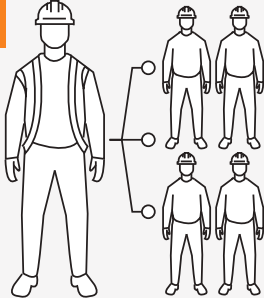



3M™ Fall Protection Solutions

3M™ Fall Protection, part of the 3M™ Personal Safety Division offers first-to-market innovations and high-performance solutions that have earned us a reputation as experts in fall protection, safe working in confined spaces and rescue. We're better equipped than ever to continue investing in technology and products that enhance worker safety, productivity and comfort through our DBI-SALA® and Protecta® brands. We're elevating safety and comfort to new heights.

The ABC's of Fall Protection

A typical Personal Fall Arrest System (PFAS) incorporates three components, often described as the ABC's of fall protection. The anchorage/anchorage connector, body support and connecting device - when used together - form a complete system for maximum worker protection. But don't forget the other important components of a comprehensive fall protection program: descent and rescue, education and fall protection for tools.

| | | |
|--|--|--|
| A  | B  | C  |
| Anchorage <p>are a secure point of attachment. Anchorage connectors vary by industry, job, type of installation and structure. They must be able to support the intended loads and provide a sufficient factor of safety for fall arrest.</p> | Body support <p>harnesses distribute fall forces over the upper thighs, pelvis, chest and shoulders. They provide a connection point on the worker for the personal fall arrest system.</p> | Connectors <p>such as self-retracting lifelines or shock-absorbing lanyards connect a worker's harness to the anchorage.</p> |
| D  | E  | F  |
| Descent and rescue <p>devices are used to raise or lower a fallen injured worker to safety or retrieve him from a confined space.</p> | Education <p>is essential. We offer a variety of training and consultative services to fit your needs.</p> | Fall protection for tools <p>helps make work environments safer and more productive by reducing dropped object incidents.</p> |



Protecta™ P50 Lanyards and Carabiners

Protecta™ P50 line has a broad portfolio of fall protection equipment from basic harnesses and lanyards to complex industry specific anchorage connectors for all usage.

1390235^{CE}

Twin leg shock absorbing rope lanyard with one carabiner and two scaffold hooks

| Carabiner | Hook | Length | Material |
|--------------------------------------|--------------------|----------|-----------------------------|
| One auto-closed Screw-lock carabiner | Two scaffold hooks | 2 meters | 12mm polyamide twisted rope |



1390398^{CE}

Twin leg shock absorbing rope lanyard with one carabiner and two scaffold hooks

| Carabiner | Hook | Length | Material |
|---|--------------------|----------|-----------------------------|
| One auto-closed and auto-lock carabiner | Two scaffold hooks | 2 meters | 12mm polyamide twisted rope |



1390199^{CE}

Single leg restraint rope lanyard with one carabiner and one scaffold hook

Purpose : Solely for restraint usage only

| Carabiner | Hook | Length | Material |
|--------------------------|-------------------|----------|-----------------------------|
| One screw-lock carabiner | One scaffold hook | 2 meters | 12mm polyamide twisted rope |



Protecta™ P50 provides great features that allow the user to choose the right model for personal preference and job constraints.

- Economically priced that meet CE performance standard.
- Universal sized harness that fits most shapes and sizes
- Polyester webbing for durability
- 12mm Polyamide twisted rope lanyard (tested to En 354:2002)



Auto-lock Carabiner



Screw-lock Carabiner



Scaffold Carabiner

Protecta™ P50 Harnesses



139000€

3-points adjustment full body harness with dorsal D-ring

| Attachment | Adaptability | Ergonomic | Material | Colour |
|-----------------------------------|-----------------------------------|---|--------------------|-------------------------------------|
| One dorsal D-ring for fall arrest | Adjustable chest and thigh strips | Ideally positioned sit-strap for extended comfort | 44mm Polyester web | Dual-color webbing for easy wearing |



1390010€

5-points adjustment full body harness with dorsal D-ring

| Attachment | Adaptability | Ergonomic | Material | Colour |
|-----------------------------------|---|---|--------------------|-------------------------------------|
| One dorsal D-ring for fall arrest | Adjustable chest, shoulder and thigh strips | Ideally positioned sit-strap for extended comfort | 44mm Polyester web | Dual-color webbing for easy wearing |



1390024€

5-points adjustment full body harness with chest and dorsal D-ring

| Attachment | Adaptability | Ergonomic | Material | Colour |
|--|-----------------------------------|---|--------------------|-------------------------------------|
| One chest & dorsal D-ring for rescue & fall arrest | Adjustable chest and thigh strips | Ideally positioned sit-strap for extended comfort | 44mm Polyester web | Dual-color webbing for easy wearing |



1390033€

5-points adjustment full body harness with chest & dorsal D-ring, and work positioning belt

| Attachment | Adaptability | Ergonomic | Material | Colour |
|--|-----------------------------------|---|--------------------|-------------------------------------|
| One chest & dorsal D-ring for rescue & fall arrest, side D-ring for work positioning | Adjustable chest and thigh strips | Ideally positioned sit-strap for extended comfort | 44mm Polyester web | Dual-color webbing for easy wearing |

3M Training and Support

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

Our qualified and highly experienced technical team are able to assist customers by:

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

Respiratory Qualitative Fit Testing

Tight-fitting respirators must seal to the wearer's face in order to provide expected protection. This includes filtering facepieces respirators. Therefore, fit testing is required in Malaysia by the Department of Occupational Safety and Health (DOSH) before a user wears a mandatory respirator on the job and must be assessed at least annually as highlighted in the Guidelines on The Use of Personal Protective Equipment Against Chemical Hazards, under the Occupational Safety & Health (Use and Standard of Exposure of Chemical Hazardous to Health) Regulations 2000. In addition, fit tests should be performed:

- Whenever a different size, style, model or make of respirator is used.
- When any facial changes occur that could affect fit, such as significant weight fluctuation or dental work.



Scan the QR Code for more information.



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.



Training Services

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

1. Respiratory Protection
2. Hearing Protection
3. Head, Eye and Face Protection
4. Fall Protection



Each participant will be given a 3M Certificate of Completion for each training session.



3M Personal Safety Division

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