



Science.  
Applied to Life.™

# Helping to enhance worker health and safety at every step.

3M™ Personal Protective Solutions for Primary Metal Manufacturing

# For **50<sup>+</sup>** years, the safety behind your success

3M helps to protect workers in a changing world. Across diverse industries and applications, our technology, knowledge and energy drive innovative solutions. Our goal is to help protect you from hazards in the work environment, so you can focus on the job at hand.

Over 50 years ago, 3M introduced the first U.S. Government-approved 3M filtering facepiece respirator, and the 3M™ E-A-R™ Classic™ Earplug.

Today, 3M remains dedicated to developing Personal Protective Equipment (PPE) to help get your workers back home: we apply science to life, helping protect workers' health and safety on the job, for employees today and tomorrow.

**50<sup>+</sup>** Years of  
**Health and**  
**Safety Leadership** 

# Helping to enhance worker health and safety in primary metal manufacturing

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# We have safety down to a science

Primary metal manufacturing exposes workers to a number of risks every day, from hot working environments to respiratory hazards and the presence of chemicals. Access to appropriate PPE and training on proper use can help protect your workers against hazards faced in their work areas.

3M offers a comprehensive portfolio of quality PPE designed for comfort and protection – and backed by over 50 years of experience in the science of safety. When you work with 3M, you get more than a global manufacturer: you also get access to our full suite of training solutions and our knowledgeable PPE specialists. We can help you plan and implement a safety program that's right for you and your workforce. We also offer select safety training classes on-site, customised to the unique environment of your facility.

## Why work with 3M?

- ▶ Innovative technologies
- ▶ Industry knowledge and hazard awareness
- ▶ Regulatory and standards knowledge
- ▶ PPE standardisation and improvement programs
- ▶ Training centres and online education courses
- ▶ Authorised service and repair centres
- ▶ Broad channel/reseller network
- ▶ 3M PPE specialist on-site support

## 3M Personal Protective Solutions

- ▶ Disposable, reusable and powered and supplied air respiratory protection including radiant heat accessories
- ▶ Fall protection solutions
- ▶ Confined space entry, exit and rescue solutions
- ▶ Head, eye and face protection
- ▶ Welding safety solutions
- ▶ Hearing protection and protective communication solutions



# 3M™ Personal Protective Solutions for primary metal manufacturing

When worker health and safety are at stake, you want PPE you can trust – and that your workers will feel good about wearing.

With 3M Personal Protective Solutions, you can help to ensure that your workers are protected



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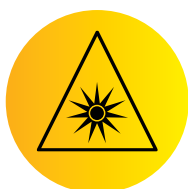
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# Common respiratory hazards and potential health effects in primary metal manufacturing

Application	 <b>Potential Airborne Hazards</b>	 <b>Potential Inhalation Health Effects</b>
<b>Raw material handling; crushing and milling; ore beneficiation; sintering</b>	Metal, mineral and other particulates; silica; acid mists; cyanides	Respiratory tract irritation; metal specific toxicity; silicosis; asphyxiation
<b>Coke Production</b>	Coal dust and other particulates; organic vapours; sulfur dioxide; hydrogen sulfide; nitrogen oxide; ammonia; carbon monoxide; coal tar pitch volatiles; polycyclic aromatic hydrocarbons	Respiratory tract irritation; asphyxiation; cancer; Central Nervous System (CNS) depression; pneumoconiosis; pulmonary edema
<b>Iron and Steel production (melting and refining)</b>	Metal dust, fume and other particulates; carbon monoxide; carbon dioxide	Respiratory tract irritation; metal specific toxicity; asphyxiation; cancer; CNS depression
<b>Aluminium production (smelting and refining)</b>	Aluminium, alumina, and fluoride particulates; carbon monoxide; carbon dioxide; organic vapours; polycyclic aromatic hydrocarbons; sulfur dioxide; hydrogen fluoride	Respiratory tract irritation; asphyxiation; pulmonary edema; pneumoconiosis; cancer
<b>Non-ferrous (except aluminium) production (smelting and refining)</b>	Metal dust, fume and other particulates; carbon monoxide; carbon dioxide; organic vapours; sulfur dioxide; acid mists	Respiratory tract irritation; metal specific toxicity; asphyxiation; pulmonary edema
<b>Continuous and Semi-Continuous Casting</b>	Metal dust, fume and other particulates; carbon monoxide; carbon dioxide; oil mists	Respiratory tract irritation; metal specific toxicity; asphyxiation
<b>Metal Shaping and Surface Treatment</b>	Metal dust, fume and other particulates; carbon monoxide; carbon dioxide; oil mists; alkali/acid mists	Respiratory tract irritation; metal specific toxicity; asphyxiation
<b>Foundry Operations (metal melting, casting, and finishing)</b>	Metal dust, fume, silica, and other particulates; carbon monoxide; carbon dioxide; fluorides; isocyanates; formaldehyde	Respiratory tract irritation; metal specific toxicity; asphyxiation; silicosis; cancer; respiratory sensitisation
<b>Maintenance activities</b>	Metal dust, welding fume and other particulates; carbon monoxide; carbon dioxide; organic vapours; oil mists	Respiratory tract irritation; metal specific toxicity; asphyxiation; cancer; CNS depression

# Respiratory Protection

With more than 50 years of health and safety leadership, 3M utilises innovative technologies and features in a variety of styles to help provide comfortable and reliable respiratory protection.

## Powered Air Purifying Respirators (PAPR)



PAPR systems can offer respiratory protection with integrated head, eye and face protection that can help provide a more comfortable environment for the worker. Workers with limited facial hair may be accommodated with certain headtops. Accessories can also enable the use of certain protective communication solutions for noisy environments.



### 3M™ Versaflo™ Heavy Industry PAPR Kit

**3M Product Number:** TR-600-HIK

Ready to use PAPR kit for use in harsh environments such as demolition, grinding, metal finishing and casting.

Longer run time, reduced downtime with a high-capacity battery and charge-level indicators to keep you prepared and informed.

Filters help to protect against certain gases and vapours and can be combined with filters for protection against particulates.



### 3M™ Versaflo™ Helmet M-307

**3M Product Number:** M-307

3M™ Versaflo™ Helmet with Flame Resistant Faceseal can help to protect your workers from a variety of respiratory and impact hazards while maintaining comfort. It is lightweight, compact and easy to maintain.



### 3M™ Versaflo™ Helmet M-407

**3M Product Number:** M-407

For respiratory, eye, face and head protection with additional neck and shoulder coverage. Features a flame-resistant shroud for applications with hot particles. The M-407 Assembly includes a M-927 Premium Visor, M-444 Inner Collar, and M-447 Flame Resistant Outer Shroud. The M-927 visor is made of coated polycarbonate. The M-447 shroud is made of Nomex® flame resistant fibres.

### 3M™ Versaflo™ Radiant Heat Accessories

Designed to be used with the 3M™ Versaflo™ M-307 or M-407 Helmet in high temperature environments by providing improved head, neck and shoulders protection and comfort from radiant heat.

3M Product Number	Description:
M-973	Radiant Heat Cover for M-307, Visor Carrier and Over-Visor
M-975	Radiant Heat Cover for M-407, Visor Carrier and Over-Visor
M-961	Over-visor Frame, M-961
M-967	Over-visor, Gold, IR Shade 5, M-967



For airborne particulate protection

**3M™ Versaflo™ Particulate Filter TR-6710E, for TR-600 PAPR**



For gas vapour protection

**3M™ Versaflo™ TR-6580E ABE2K1 Hg P Filter, for TR-600 PAPR**

## Supplied Air Respirators (SAR)

A cost-effective way to provide a high level of respiratory protection.



### 3M™ Versaflo™ Supplied Air System, Air Regulator, V-500E

**3M Product Number:** V-500E

3M™ V-Series Supplied Air Regulators provide comfortable, cost-effective respiratory protection for all-day use. Supplied air respirators offer many features over traditional respiratory protection, such as cooling or heating incoming air (sold separately). 3M™ Supplied Air Respirators require a source of breathable quality air. This clean, breathable air can be delivered to a range of hoods and helmets.



**IMPORTANT:** All 3M products shown in this catalogue must be used in accordance with the local regulations and the user instructions, warnings, and limitations accompanying each product.

These suggestions do not reflect all required PPE for a given application or hazard. Reference and follow all local regulations.

## Reusable Respirators



### Secure Click™



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

3M Product Number	Description:
FF-801	Small
FF-802	Medium
FF-803	Large

The 3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 Series helps protect against particulates and/or a wide variety of gases and vapours when used with approved 3M Secure Click filters and cartridges. This facepiece comes with advanced features that make it 3M's next generation in comfort, breathability and simplicity.

OR



#### 3M™ Secure Click™ Half Facepiece Reusable Respirator with Speaking Diaphragm HF-800 Series

3M Product Number	Description:
HF-801SD	Small
HF-802SD	Medium
HF-803SD	Large

Designed with smart and intuitive features, the 3M™ Secure Click™ Half Facepiece Reusable Respirator with Speaking Diaphragm HF-800 Series is simple, comfortable and reliable. Available in three sizes: small, medium, and large, our respirators all come with a speaking diaphragm.



#### 3M™ Secure Click™ Gas, Vapour and Particulate Filter, A1B1E1K1P3 R, with Dual Flow, D8094

3M Product Number: D8094

3M™ Secure Click™ Gas, Vapour and Particulate Filter, A1B1E1K1P3 R D8094 is CE-approved to help provide respiratory protection against certain gas, vapour and airborne particulate contaminants. The D8094 filters are for use with 3M™ Secure Click™ facepieces. 3M™ Secure Click™ cartridges/filters utilise dual flow technology for easy breathing.



OR



#### 3M™ Secure Click™ Particulate Filter with Nuisance Level Organic Vapour and Acid Gas Relief, and Ozone up to 10 x WEL, P3 R, D3138

3M Product Number: D3138

3M™ Secure Click™ Particulate Filter with Nuisance Level Organic Vapour and Acid Gas Relief, and Ozone up to 10 x WEL, P3 R, D3138 is made with proprietary Advanced Electrostatic Media (AEM) consisting of highly charged microfibrils arranged in an open formation that enhance the capture of airborne particles while allowing for greater passage of air through the media. These particulate filters are both flame and water resistant. The D3138 particulate filter may be used in a variety of applications such as metalworking, grinding, sanding and welding.

### 6500 QL



#### 3M™ Rugged Comfort Quick Latch Half Facepiece Reusable Respirator 6500QL Series

3M Product Number	Description:
6501QL	Small
6502QL	Medium
6503QL	Large

This reusable respirator has a resilient silicone faceseal that helps provide comfort, durability and stability with a soft firm seal. The facepiece features our quick latch design, which offers an easy, one-hand touch drop-down mechanism for putting the facepiece on and taking it off while moving in and out of contaminated areas.



#### 3M™ Gas, Vapour and Particulate Filter, A2P3 R, 6095

3M Product Number: 6095

3M™ Gas, Vapour and Particulate Filters have a bayonet-style connection that fits a wide range of compatible half and full-face 3M™ Reusable Masks. The swept back profile is designed to optimise your field of vision. Our range of lightweight filters offer well-balanced breathing protection for hazardous environments.



OR



#### 3M™ Particulate Filter, P3 R, 2138

3M Product Number: 2138

3M™ Particulate Filters provide protection against a wide range of dusts, mist and other particles. 3M particulate filters offer low breathing resistance and good balance with a slim, swept back profile, designed to optimise your field of vision when wearing the respirator. Filters can be clicked into place easily, simply align the connections and twist into place. They can be used with all 3M reusable respirators featuring a bayonet style connection.

- ▶ Selection of appropriate respiratory protective equipment (RPE) will depend on each situation and should be made only by a competent person knowledgeable of the actual working conditions and the limitations of RPE.
- ▶ Refer to applicable government regulations regarding respirator selection, which take precedence over a respirator manufacturer's guidance.

- ▶ Do not use respirators when airborne contaminant concentrations exceed maximum use concentrations established by regulatory agencies.
- ▶ Before use, the wearer must read and understand the respirator User Instructions. Failure to follow all instructions and limitations on the use of these respirators and/or failure to wear them properly during all times of exposure can reduce respirator effectiveness and may result in sickness or death.

These suggestions do not reflect all required PPE for a given application or hazard. Reference and follow all local regulations.

# Respiratory Protection continued

## Disposable Respirators



### 3M™ Aura™ Particulate Respirator, FFP3, Valved, 9332+

**3M Product Number:** 9332+

3M™ Aura™ Particulate Respirator 9332+ has an ergonomic, flat-fold, 3-panel design featuring a low breathing resistance filter media. With valve and protection level FFP3. Our respirators feature an innovative chin tab for easy adjustments and an embossed, sculpted upper panel to help reduce eyewear fogging.



### 3M™ Particulate Respirator, FFP3, Valved, 8835+

**3M Product Number:** 8835+

Get protection against hazardous dusts and mists, with 3M™ Particulate Respirators 8000 Series. Our robust, cup-shaped respirator 8835+ provides FFP3 protection and features a soft, cushioned lining for lasting comfort throughout your work shift. The 3M Advanced Electret (filter) Media (AEM) aids users in breathing easily, and with 3M™ Cool Flow™ Exhalation Valve helping to release warm and moist exhaled breath from inside the respirator. It's designed to work well with 3M Eyewear and Hearing Protection products.



### 3M™ Speciality Particulate Respirator, FFP3, Valved, 9936

**3M Product Number:** 9936

3M™ Speciality Particulate Respirator 9936 helps to provide FFP3 level protection against particles, as well as nuisance level (below exposure limit) relief from acid gases. Our respirator has an activated carbon layer that provides relief against nuisance level odours. The convex shape, soft inner face seal, nose clips and twin straps helps adjust to a broad range of faces.

Fit testing is required for employees wearing tight-fitting respirators, such as disposable or reusable respirators. This procedure helps to ensure the user has selected the correct size respirator and that a seal against the face can be made in order to provide the expected protection. See page 17 to learn how 3M™ Wear It Right App can help you here.

These suggestions do not reflect all required PPE for a given application or hazard. Reference and follow all local regulations.

# Head Protection



We design and manufacture safety helmets and accessories to meet a wide range of needs. From safety helmets for working at height, to full-brim safety helmets and solutions for working in elevated temperatures, we offer consistently reliable products.

## 3M™ High Heat Safety Helmet, Ratchet, Non vented, Dielectric 1000V, Leather Sweatband, White, G3501M-VI



3M Product Number: G3501M-VI

3M™ G3501 Series High Heat Safety Helmet is designed to offer high levels of protection for the toughest of applications. The helmet is also the platform for a range of hearing, eye and face protection products that are designed to withstand the metal working environments without compromising compatibility, comfort or easy of use.

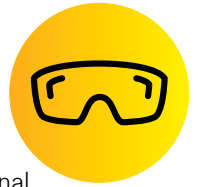
## 3M™ Faceshield Holder for 3M™ Safety Helmets



3M Product Number: FH1

The 3M FH1 faceshield holder allows the fitting of a range of 3M faceshields to the 3M safety helmet.

# Eye Protection



3M Protective Eyewear is designed to deliver comfort and performance, helping to keep workers safe. Featuring optional 3M™ Scotchgard™ Anti-fog Coating, which resists fogging up to 11x longer than traditional 3M anti-fog coating, and proprietary 3M™ SecureFit™ Pressure Diffusion temple technology that self-adjusts to the wearer's head size and shape.

## 3M™ Solus™ Protective Eyewear 1000 Series



The 3M™ Solus™ Protective Eyewear 1000 Series feature a sporty low-profile design and are available in several lens tints with 3M™ Scotchgard™ Protector Anti-Fog Coating. A versatile platform that can be configured with temples or straps, and includes removable temples allowing the worker to switch between the two options. Sold as an individual eye protection model or kit models with a gasket and elastic strap to help address exposure to dust and dirt.

## 3M™ SecureFit™ Protective Eyewear 500 Series



3M™ SecureFit™ 500 Series features a contemporary lens design coupled with adjustable ratcheting temples and Pressure Diffusion Temple technology to help provide a more personalised fit. The flat and flexible temple design combines well with 3M™ PELTOR™ Hearing and Communications equipment. A variety of lens tints and models with 3M™ Scotchgard™ Protector Anti-Fog Coating, which resists fog 11x longer and has 7x better anti-scratch performance than traditional 3M anti-fog coating, are offered. Some models available with foam gasket to help limit eye exposure to debris.

These suggestions do not reflect all required PPE for a given application or hazard. Reference and follow all local regulations.

# Face Protection



## 3M™ Faceshield 5 Series, Polycarbonate, Gold Plated, 5XG-IR5

**3M Product Number:** 5XG-IR5

3M™ 5-Series Faceshields is a range of polycarbonate, acetate and mesh faceshields, certified to EN 166:2001 and EN 1731:2006, and designed to protect against impact of high-speed particles and other industrial hazards.

## 3M™ Electric Arc Protective Faceshield Series



3M Product Number	Description:
WPAF1	Electric Arc Protective Faceshield WPAF1, Class 1, Clear
WPAF2-0	Electric Arc Protective Faceshield WPAF2-0, Class 2, Grey, with Chin Guard

Designed to help provide protection against the hazards of an electrical arc flash, such as radiant heat, flying debris, and UV radiation.

CE certified to European standards; EN 166 standard for Eye and Face Protection and meets GS-ET-29, the standard for testing and certification of faceshield for electrical work.

Easy donning and doffing; snap-in faceshield holder connection for fast replacement of faceshield



Compatible with 3M™ FH1 Faceshield Holder and a variety of 3M™ Industrial Safety Helmets

Features clear or grey tint allowing for good colour recognition

Faceshield made from coated polycarbonate, to help minimise the effects of scratches and fogging

Model WPAF2-0 features a clear chin guard that extends towards the ears providing additional lateral coverage and unrestricted field of vision in all directions

# Hearing Protection and Protective Communications



We don't just sell hearing protection products. We're dedicated to the success of your entire hearing conservation program from product selection to workforce training and program management. We offer a variety of disposable, push-to-fit and reusable earplugs. For environments where hearing conservation must be combined with communication, stay protected and connected with 3M™ PELTOR™ Headsets.

## Earplugs



### 3M™ E-A-R™ Classic™ Earplugs, Corded and Uncorded Options Available

3M Product Number	Description:
PP-01-002	Uncorded
CC-01-001	Corded

The 3M™ E-A-R™ Classic™ Earplugs set the industry standard for personal safety noise reduction as the world's first foam earplug. Soft, slow-recovery foam is designed to mould to the shape of the ear canal for enhanced comfort and wearability. These disposable earplugs come with or without cords; an optional dispenser box is sold separately. A cylindrical shape is suited to fit most sizes, with a 7% smaller version also available for smaller ear canals.



### 3M™ E-A-R™ Push-Ins™ Earplugs, Corded and Uncorded Options Available

3M Product Number	Description:
EX-01-021	Uncorded
EX-01-020	Corded

3M™ E-A-R™ Push-Ins™ Earplugs have a 3M E-A-Rform™ Foam tip that's shaped and sized to fit comfortably in most ears. Our recognisable yellow earplugs have a flexible blue stem for easy insertion using one or two hands. Push in insertion makes fitting and removal easy and hygienic. Don't let dirt, chemicals and other harmful substances from your work wind up in your ears.



### 3M™ E-A-R™ UltraFit™ Earplugs, Corded

**3M Product Number:** UF-01-000

The 3M™ E-A-R™ UltraFit™ Earplugs are made with a triple-flange design that is designed to contour to the different shapes and sizes of ear canals. This helps create a noise-blocking seal. These earplugs feature stem grips, making it easier for workers to insert these earplugs into their ears. No need to roll down or touch the portion of the earplug that goes into the ear. Pliable material can be washed and reused, cutting down costs and extending the hearing protector's life.



### 3M™ 1271 Corded Reusable Earplug

**3M Product Number:** 1271

Get comfortable and durable hearing protection with 3M™ Earplugs 1200 Series. The 3M 1271 reusable earplugs are designed for use in a wide range of applications against moderate noise exposure level. They are made from a soft durable Thermoplastic Elastomer (TPE). The specially designed and triple flange shape is tapered to fit most ear canal sizes, offering a comfortable secure fit. The finger grip design keeps insertion and removal simple, convenient and hygienic.

These suggestions do not reflect all required PPE for a given application or hazard. Reference and follow all local regulations.

# Hearing Protection and Protective Communications continued

## Earmuffs



### 3M™ PELTOR™ X5 Earmuffs

3M Product Number	Description:
X5A EU	Headband
X5P3E EU	Helmet Attached

3M™ PELTOR™ X5 Earmuffs are our innovative hearing protectors that offer exceptional performance – without the need for double protection. Combining 3M's legendary hearing protection knowledge with advanced technology, they offer the same premium features you expect from 3M PELTOR X Series whilst reducing noise up to 37 dB (model dependent).

3M PELTOR Earmuffs X5 are colour-coded black, making it simple to select the correct level of protection from the X series range.



### 3M™ PELTOR™ X4 Earmuffs

3M Product Number	Description:
X4A EU	Headband
X4P3E EU	Helmet Attached

3M™ PELTOR™ X4 Earmuffs are our lightweight and slim hearing protectors with innovative foam earcup inserts and spacers to help boost attenuation and protect against low frequencies. Available as headband and helmet attachment models. The headband model features an electrically insulated, twin headband that decreases heat build-up on top of the head. Depending on wearer preference or application need, the helmet attached versions are available as either dielectric electrically insulated or with robust metal arms.

## Protective Communications



### 3M™ PELTOR™ WS™ LiteCom PRO III Headsets

3M Product Number	Description:
MT73H7A4D10-EU	Headband
MT73H7P3E4D10-EU	Helmet Attached
MT73H7B4D10-EU	Neckband

3M™ PELTOR™ WS™ LiteCom Pro III Headsets are our high-performance hearing protectors with a built-in analogue and digital programmable two-way communication radio, level-dependent functionality for ambient listening, Bluetooth® multipoint connectivity, Lithium-Ion rechargeable battery and an external connection jack. Available in headband, neckband and helmet-mounted models.



### 3M™ PELTOR™ WS™ ProTac™ XPI Headsets

3M Product Number	Description:
MT15H7AWS6-111	Headband
MT15H7P3EWS6-111	Helmet Attached
MT15H7BWS6-111	Neckband

3M™ PELTOR™ WS™ ProTac™ XPI is a range of level-dependent Bluetooth® headsets for effective hearing protection without compromising communication. These innovative headsets are equipped with level-dependent microphones for ambient sound awareness and communication in noisy environments. Bluetooth connectivity allows seamless connection to enabled devices and the headsets feature IP68 classified noise-cancelling microphones. They come in a high visibility yellow colour, with a headband, neckband or helmet attachment, and are also available with FLX2 accessory connectors.



### 3M™ PELTOR™ CH-3 Headsets

3M Product Number	Description:
MT74H52A-111	Headband
MT74H52P3E-111	Helmet Attached
MT74H52B-111	Neckband

3M™ PELTOR™ CH-3 Headsets utilise the FLX2 cable system for a simple and reliable connection. They feature a speaker system and boom microphone that's optimised for speech frequency in high noise environments and a modern cup design which provides high comfort and attenuation. Available in headband, neckband or helmet attachment.

These suggestions do not reflect all required PPE for a given application or hazard. Reference and follow all local regulations.

# Hearing Protection and Protective Communications continued



## In-Ear Headsets



### 3M™ PELTOR™ Electronic Earplug, Green, EEP-100 EU

**3M Product Number:** EEP-100 EU

Protect your hearing from loud noises, without losing the ability to hear ambient sounds with 3M™ PELTOR™ Level Dependent Earplugs. Our wireless electronic earplugs are designed to help improve situational awareness and communication. They allow you to easily speak to people nearby as well as hear ambient sounds from the surrounding environment, without compromising your hearing protection. They come in a kit which includes a protective charging case and an assortment of ear tips, a retention cord, windscreens and a USB cable for charging.



### 3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 EU

**3M Product Number:** PIC-100 EU

The 3M™ PELTOR™ Professional In-Ear Communication Headset, PIC-100 is a next generation protective communication solution. The innovative, on-demand fit test informs the users of their personal protection level, while an in-ear speech microphone and multiple wireless technologies enable clear communication in noisy environments.

Featuring on-demand fit-test functionality at the push of a button, users can obtain their personal protection level, to help ensure they have enough protection for their hazardous noise environment. The PIC-100 also features environmental listening technology. This assists workers to communicate face-to-face, in low or intermittent noise, and to hear environmental sounds at safe levels without being tempted to remove or poorly fit their hearing protection. Compatible with several different eartip styles and sizes, users can choose the eartips they prefer and ones that provide adequate protection.



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

# Welding Protection Solutions



Help protect your workers from welding fumes, metal particles and UV IR visible light with 3M™ Speedglas™ and 3M™ Versaflo™ products. These welding helmets and shields help protect workers' vision, while auto-darkening filter attachments help them see the weld puddle in greater detail. What's more, many 3M welding helmets can be combined with respiratory solutions (including PAPR assemblies) for enhanced protection.



**3M™ Adflo™ Powered Air Purifying Respirator System with 3M™ Speedglas™ G5-01 Welding Helmet, with Welding Filter G5-01TW**

**3M Product Number:** 617820



**3M™ Adflo™ Powered Air Purifying Respirator System with 3M™ Speedglas™ G5-01 Welding Helmet, with Welding Filter G5-01VC**

**3M Product Number:** 617830

For workers in heavy duty environments, 3M™ Adflo™ Powered Air Purifying Respirator with Speedglas™ G5-01 Series Heavy-Duty Welding Helmet system provides High-Efficiency particulate respiratory protection for welders in a robust yet compact design with ergonomic, adjustable head suspension. Flip front welding shield allows for a clear, wide-view protective visor for grinding and setup. The 3M™ Adflo™ Powered Air Respirator has a High-Efficiency particulate filter that can be "stacked" onto an optional 3M™ Adflo™ Filter (not included) for additional protection against certain vapours or a Nuisance Odour Pad Assembly. Audible and visual alarms signal low airflow and low battery charge. Available in two different Auto-Darkening Lens options (VC/TW). G5 Series storage/carry bag included.



**3M™ Adflo™ Powered Air Purifying Respirator System with 3M™ Speedglas™ 9100 MP Welding Helmet, with Welding Filter 9100XXi**

**3M Product Number:** 577726

Wide, clear visor plate. Sold with 3M™ Speedglas™ 9100XXi Welding Filter. Ergonomic, adjustable headband for good comfort, helmet stability, and weight distribution. Recommended for construction, heavy infrastructure, and industrial maintenance industries.



**3M™ Speedglas™ Welding Helmet G5-03 Pro**

3M™ Speedglas™ Welding Helmet, G5-03 Pro is specifically designed for the versatile welder. The helmet allows you to switch between welding and grinding tasks through our innovative Tap functionality. With highly customisable adjustment settings, including more control over how you see your weld pool and how you configure the helmet for additional protection against radiation, sparks and spatter, G5-03 Pro allows you to take control over your protection. Features 3M™ Speedglas™ Natural Color Technology, Variable Color Technology (with G5-01/03VC), and a Tack Welding Mode (with G5-01/03TW). The optional Task Light also allows you to see more of your work piece. An optional helmet adaptor system also enables the connection of a hard hat for welders requiring head protection.

3M Product Number	Description:
631820	with Welding Filter G5-01/03TW
617830	with Welding Filter G5-01/03VC



**3M™ Speedglas™ G5-03 Pro Air Welding Helmet with 3M™ Adflo™ PAPR System**

3M™ Speedglas™ Welding Helmet, G5-03 Pro Air is designed for the versatile welder. With customisable adjustment, how air is directed, how you configure the helmet for additional protection, G5-03 Pro Air features our Natural Color Technology, Variable Color Technology (VC), and a Tack Welding Mode (TW). The optional Task Light also allows you to see more of your work piece. Provides High-Efficiency particulate respiratory protection for welders in a robust yet compact design with ergonomic, adjustable head suspension.

3M Product Number	Description:
637720	with Welding Filter G5-01/03TW
637730	with Welding Filter G5-01/03VC

These suggestions do not reflect all required PPE for a given application or hazard. Reference and follow all local regulations.

# Fall Protection



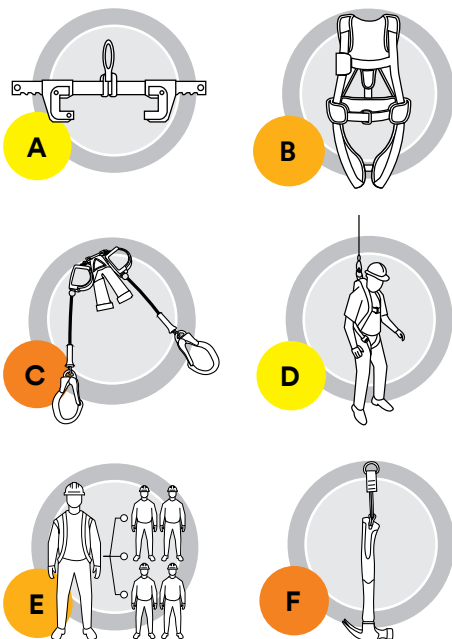
For many years, 3M Fall Protection has worked with end customers in the metalworking industry and we understand the complexity of working at height and in confined spaces.

3M offers a wide range of fall protection solutions - consisting of the three main components: Anchorages, Body harnesses and Connectors.

Please consult your local 3M Fall Protection specialist to discuss potential solutions for your unique and specific challenges of working at height.

## The ABCs of Fall Protection

With thousands of products designed for the specific needs of many industries with work at-height hazards, we can help find the combination of anchorages, body support and connector solutions to meet the requirements of many applications in the primary metals segment.



- A Anchorage**  
This is a secure point of attachment on the structure for a personal fall arrest system (PFAS). 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. Under European Standards, single person anchors for personal fall protection are required to be tested to 12kN. They must be able to be connected into from a safe position.
- B Body Support**  
Harnesses distribute fall forces over the upper thighs, pelvis, chest and shoulders. They provide a connection point or points on the worker for the personal restraint and/or fall arrest system.
- C Connectors**  
Devices such as self-retracting lifelines or energy-absorbing lanyards connect a worker's harness to the anchorage.
- D Descent and Rescue Devices**  
Descent devices allow a person to lower themselves or be lowered to a work location. Another application for descent devices is for rescue. 3M have a range of rescue equipment which includes the 3M DBI Sala R550 rescue device and the 3M DBI Sala RSQ automatic rescue system.
- E Education**  
Appropriate training is essential for all persons planning, supervising or undertaking work at height. 3M offers a variety of training and consultative services to fit your needs.
- F Fall Protection for Tools**  
Solutions that help make work environments safer and more productive by reducing dropped object incidents.

## Example of fall protection mobile anchor point



# Confined Space Solutions



With limited means of entry and exit and/or poor ventilation, confined spaces present hazards of their own – in addition to the risk of falling, plus exposure to any chemical residue that may be present inside. 3M offers a range of hoists, harnesses and accessories to help protect workers from the hazards in confined areas of your facility.

**Learn more about fall protection in confined space at:**

[www.3m.co.uk/confinedspaces](http://www.3m.co.uk/confinedspaces)

**Contact our team:**

[https://www.3m.co.uk/3M/en\\_GB/worker-health-safety-uk/contact-us/](https://www.3m.co.uk/3M/en_GB/worker-health-safety-uk/contact-us/)

## Example of confined space entry



# Self-Contained Breathing Apparatus (SCBA)



For certain hazardous environments or rescue situations, atmosphere-supplying respiratory protection may be required. 3M offers Self-Contained Breathing Apparatus (SCBA) and Supplied Air Respirators (SAR) solutions to help protect workers during emergencies.



## 3M™ Scott™ ProPak Sigma SCBA Kit

**3M Product Number:** 2027157

The 3M™ Scott™ ProPak Sigma SCBA Kit is a ready-to-use kit. It comes complete with a ProPak Sigma SCBA set, a Vision 3 positive pressure facemask and a fully charged 6.0 litre, 300 bar steel cylinder.

The 3M™ Scott™ ProPak Sigma is a Type 2 open circuit, self-contained, compressed air breathing apparatus. It consists of a back plate, unpadded carrying harness and pneumatic system, containing a cylinder connector, reducer, pressure gauge, whistle and demand valve.



## 3M™ Scott™ Vision 3 Positive Pressure Facemask, Rubber Head Harness, M/L

**3M Product Number:** 1071671

The Vision 3 facemask is a positive pressure, medium/large, facemask and feature a liquid silicone rubber outer mask with reflex seal and EDPM ori nasal inner mask.

The Vision 3 facemasks are designed to be used with the 3M Scott range of breathing apparatus.

## 3M™ Scott™ Flite COV Supplied-Air Respirator Kit

**3M Product Number:** 2034779

The 3M™ Scott™ Flite COV Kit is a ready-to-use kit. It comes complete with a Flite COV Supplied-Air Respirator, a Vision 3 positive pressure facemask and a fully charged 3.0 litre, 200 bar steel cylinder.

The Flite COV Supplied-Air Respirator is an open circuit, positive pressure airline breathing apparatus comprising bandolier harness, positive pressure airline apparatus consisting of automatic positive pressure demand valve, supply hose and CEN coupling for airline supply hose. An additional coupling allows the connection of an emergency air supply cylinder with the automatic Change Over Valve (COV) which provides an independent air supply.



These suggestions do not reflect all required PPE for a given application or hazard. Reference and follow all local regulations.

# Education and Training



3M customers can take advantage of training on worker health and safety principles, PPE, software and other valuable information to enhance their workplace safety initiatives.

On the Worker Health & Safety training website users can find digital learnings for respiratory protection, welding, hearing protection, fall protection and other important topics spanning a wide variety of industries and applications.

It's just one more way 3M helps you and your workers to stay connected, compliant and safe.



## Ready to learn more?

Scan for more details.

### What's the 3M difference?

- ▶ On-demand and live webinars
- ▶ Dedicated Instructors
- ▶ Instructor-Led Courses
- ▶ Certified Instructor Program
- ▶ Regulatory Standards Compliance (where applicable)
- ▶ Training Centres, On-Site Delivery, or Virtual Instructor-Led Training
- ▶ Broad Employee Appeal

### Other types of training and educational tools offered by 3M:

- ▶ Demonstration Training
- ▶ Fit Testing
- ▶ Selection Guides
- ▶ Service Life Software
- ▶ Fall Protection
- ▶ Hearing Protection and Conservation
- ▶ Worker Health & Safety e-Learning
- ▶ Virtual Reality
- ▶ Seminars, Webinars and Videos
- ▶ Understanding Regulations/Compliance
- ▶ Tech Bulletins, Technical Helpline
- ▶ Dedicated Application Engineers etc.
- ▶ 3M™ Safety Mobile Training Units



## Fit testing at your fingertips

The 3M™ Wear it Right App makes the task of qualitative fit testing less tedious with the tap of a button. [Learn more and download the app](#)

We also offer safety training classes on-site, customised to the unique environment of your facility. Ready for training with true value?

Visit [3M.co.uk/safety/training](https://3M.co.uk/safety/training) to learn more.

## Hearing and PELTOR

### ▲ WARNING

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For correct use, consult supervisor and User Instructions or contact your local 3M Personal Safety Division.

### ▲ WARNING

3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations and guidance on how to adjust attenuation label value(s). In the absence of applicable regulations, it is recommended that the attenuation label value(s) be reduced to better estimate typical protection.

## Eye Protection

### ▲ WARNING

These eye or face protection products help provide limited eye and face protection. Misuse or failure to follow warning and instruction 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 warning on the package or contact your local 3M Personal Safety Division. These 3M PSD products are for occupational use only.

## Head Protection

### ▲ WARNING

3M Head and Face Products provide limited protection only. Misuse or failure to follow warnings and User Instructions may result in serious personal injury or death. For proper use, see supervisor, User Instructions, or contact your local 3M Personal Safety Division.

## Fall Protection

### ▲ WARNING

Compliant fall protection and emergency rescue systems help prevent serious injuries associated with fall events. Users must read and understand the User Instructions provided with the product, and must be properly trained by their employers in the safe use of these systems before using them, always follow applicable local standards. Misuse or failure to follow warnings and instructions may result in serious personal injury or death. For proper use, see supervisor, User Instructions, phone +44 (0)1344 858000 or email [informationfallprotection@mmm.com](mailto:informationfallprotection@mmm.com)

## Respiratory Protection



### ▲ WARNING

These respirators help to protect against certain airborne contaminants. Proper selection, training, use and appropriate maintenance are essential in order for the product to help protect the wearer from certain airborne contaminants. Failure to follow all instructions on the use of these respiratory protection product and/or failure to properly wear the complete product during all periods of exposure may adversely affect the wearer's health lead to severe or life threatening illness or permanent disability. For suitability and proper use follow local regulations, refer to all information supplied or contact a safety professional or your local 3M Personal Safety Division.

## Welding Safety

### ▲ WARNING

This product is designed to help protect the wearer's eyes and face from harmful radiation including visible light, ultra-violet radiation (UV), infra-red radiation (IR), sparks and spatter resulting from welding processes. These products must be used only by qualified persons who are properly trained in their use and maintenance. Misuse may result in permanent eye injury and vision loss. Always wear an EN 166 compliant safety spectacles in addition to any welding helmet. For correct use, see supervisor and User Instructions, or contact your local 3M Personal Safety Division.

## Coveralls

Proper selection, training, use and appropriate maintenance are essential in order for the product to help protect the wearer. Failure to follow all instructions on the use of these personal protection products and/or failure to properly wear the complete product during all periods of exposure may adversely affect the wearer's health, lead to severe or life threatening illness or permanent disability.

## Important notice

**Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable national and/or European regulations and standards. Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

**Warranty, Limited Remedy, and Disclaimer:** A limitation of liability applies to the 3M product(s). For warranty statement and limitation of liability, refer to your supply agreement or the 3M terms & conditions of sale.

3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use.



### 3M Personal Safety Division

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