

3M PPE Solutions for the Chemical Industry

2025 Edition



Bulk/Basic
Chemicals



Specialty
Chemicals



Agricultural
Chemicals



Consumer
Chemical Products



3M Solutions for the Chemical Industry

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Chemical Verticals



Bulk/Basic Chemicals

Bulk/Basic chemicals produced in this sector of chemical industry are usually separate chemical elements or separate chemically-defined compounds.



Specialty Chemicals

Specialty chemicals are typically performance-oriented and may be manufactured to a customer technical specification.



Agricultural Chemicals

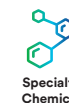
Agricultural chemicals are bulk liquid and solid (granular, powder) agricultural products.



Consumer Chemical Products

Consumer chemical finished products are manufactured and sold for commercial or consumer usage.



Bulk/Basic
ChemicalSpecialty
ChemicalAgricultural
Chemical

Processes & Applications

Turnarounds & Maintenance (TAM)

A TAM is a planned, periodic shutdown (total or partial) of a plant that runs on a continuous (rather than batch) production cycle to perform essential maintenance, modifications, and inspection work.



Line Breaking

The act of cutting, disconnecting, or other tasks for the purpose of maintenance and repair can generically be referred to as line-breaking. Inadequate isolation or other means of controlling hazardous energy or hazardous material contents during line breaking can result in serious injury.



Scaffolding

Scaffolding gives access to work areas that would otherwise be difficult to reach. These structures' temporary nature exposes them to a different set of hazards than permanent structures.



Aerial Lift/MEWP

Most aerial lifts or mobile elevating work platforms (MEWPs) used onsite at industrial facilities also have built-in guardrail systems. However, this does not mean that proper fall protection is also built-in.



Confined Space

Confined spaces often have complex entry situations. Tripods are commonly used as confined space anchors but are not appropriate for all confined spaces. Confined spaces and their entry points come in different sizes and shapes, and the supporting structure, entry configuration and space depth must be considered when selecting equipment.



Surface Preparation

Surface preparation may expose workers to different hazards including noise exposures, flying objects, chemical exposures and airborne particulates.



Welding/Grinding/Cutting

Welders and grinders may be exposed to a wide range of hazards: heat, noise, radiation, vibration, airborne particles, space restrictions, hazards from falling objects, electrical shock, grinding swarf and more.



Crane & Rigging

Crane operators and riggers work together when operating large industrial cranes with rigging tasks to safely lift large material loads and equipment within a plant.



Painting & Coating

Workers applying specialized industrial coatings or paintings to industrial equipment to protect and extend the life of plant structures and production assets.

Processes & Applications

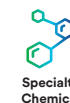
Operations

Operations includes daily Maintenance Repairs Operations (MRO) activities.

Application Descriptions



Bulk/Basic
Chemical



Specialty
Chemical



Agricultural
Chemical



Consumer
Chemical



Hazardous Material Handling/Transfers

Workers performing tasks that may require them to handle or transfer chemicals with characteristics that may cause harm when released by spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping or disposing.



Inspection & Sampling

Workers performing routine inspections of plant equipment in operations or obtaining samples of chemicals being produced at a chemical plant for product quality purposes.



General/Daily Facility Maintenance

On-site maintenance workers performing various general facility maintenance tasks while plant is operational. Some on-site maintenance workers may be contracted from other companies due to their specialized trade.



Production & Heavy Equipment Operations

On-site workers (aka operators) operate plant equipment and monitor the production process.



Processes & Applications

Emergency Response (on-site/in-plant)

Application Descriptions



Hazmat/Spill

On-site emergency response team needs appropriate equipment to quickly respond to hazmat or spill incidents. Some hazmat/spill incidents may require the help of external companies specialized in handling hazardous materials.



Fire

On-site fire brigade will need appropriate equipment to quickly respond to a plant fire or other emergency response incident at the chemical plant. Not all chemical plants will have an on-site fire brigade.



Confined Space Rescue

On-site plant emergency response team members respond to a situation where a worker needs rescue from a confined space environment. The plan should address all levels of rescue, including self-rescue and assisted rescue and have the appropriate equipment on stand-by for deployment if needed.



Rescue from Heights

On-site plant emergency response team members need to be able to quickly and safely recover a suspended worker following a fall from height. The plant emergency response plan should address all aspects of rescue including trauma straps, automatic rescue, self-rescue and assisted rescue and have all appropriate equipment on stand by for deployment as required.



Introduction of Common Hazards for Chemical Processing & Manufacturing Industry

There are several potential occupational hazards and they can vary between the different sectors of the chemical industry.

The following hazard categories are applicable to 3M Personal Protective Equipment (PPE).

Health hazards include potential chemical exposures via inhalation, eye, body, or skin.

Physical hazards include potential hazardous exposures or risks to noise, UV, IR, temperature, fire, spills, working at heights, and confined space.

Most Common Hazards in Chemicals Manufacturing



Chemical exposures
(including airborne particulates, gases & vapours)



Exposure to noise



Working at heights



Confined Space



Flying Objects

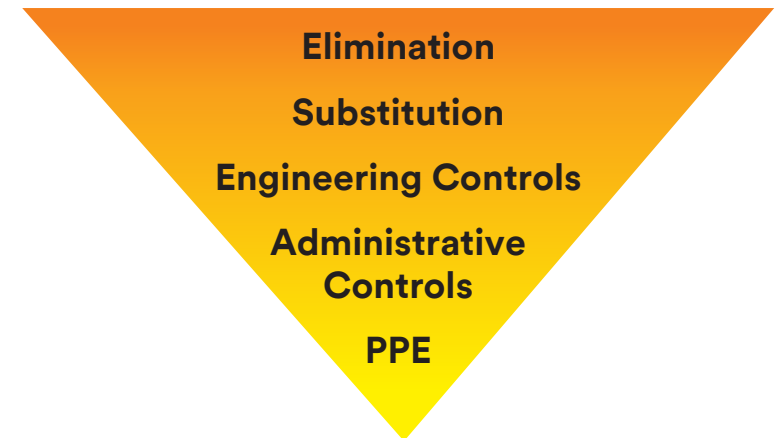


Liquid Splash



UV IR VIS Light
(welding arc)

Hazard Control Hierarchy



Companies decide on how to manage or control the hazards/risks identified in their workplace. The principle of the hazard control hierarchy is commonly followed when dealing with hazards/risks in workplaces.

Note: Some chemicals considered hazardous according to one set of regulations and geographic area or country may not have the same hazard definitions by another.



Personal Safety Solutions

Respiratory Protection Equipment

Disposable Respirators

3M™ Aura™ Particulate Respirator 9211+, N95



3M continues its long tradition of innovation with the launch of the new 3M™ Cool Flow™ Comfort Valve on the Aura™ 9211+ model. Taking comfort to the next level, this improved exhalation valve opens easily, allowing warm, moist exhaled breath to escape more quickly from inside the respirator to help improve comfort and breathability.

New valve opens 44% easier, allowing 70% more airflow*



3M™ Particulate Respirator 8214, N95, with Faceseal and Nuisance Level Organic Vapor Relief



The 8214 respirator is designed to help provide respiratory protection for certain non oil-based particles in applications such as welding, soldering and other operations in which metal fumes may be present. The 8214 respirator includes carbon filter material for ozone** and nuisance level organic vapors***.



Reusable Respirators

3M™ Secure Click™ Half Facepiece Reusable Respirator HF-800 Series and 3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 Series



3M™ Secure Click™ Reusable Respirators are 3M's next generation of reusable respiratory protection. The innovative Secure Click™ connection helps provide confidence that filters/cartridges are installed properly. Simply align the connections and push until you hear a click. Both half and full facepieces include easy, one-touch seal check button and speaking diaphragm.



HF-800

Faceseal designed to sit lower on the nose bridge to help improve eyewear compatibility.

Low profile design offers a wide field of view.



FF-800

Large, scratch resistant lens meets ANSI/ISEA Z87.1-2015 standard for eye and face protection.

Comfort cradle positions respirator more comfortably on head, reducing pressure points and hair pulling.



3M™ Full Face Reusable Respirator 6000 Series



3M™ Full Facepiece Reusable Respirator 6000 Series have a large polycarbonate lens and soft, elastomeric facepiece. The 3M™ Bayonet Connection System enables you to connect to a broad range of 3M twin lightweight filters. The 6000 Series is lightweight and features a 3M™ Cool Flow™ Valve and four-strap suspension.



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Line Breaking

Confined Space (Entry & Work Inside)

Welding/Grinding/Cutting

Painting & Coating

Operations

Hazardous Material Handling/Transfers

Inspection & Sampling

General/Daily Facility Maintenance

*Compared to the previous 3M™ Cool Flow™ Valve when exhaled air was measured at a 10 L/min breathing rate.

** Carbon filter media reduces exposure to ozone up to 10X PEL(OEL) for up to 8 hours.

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



Personal Safety Solutions

Respiratory Protection Equipment

Powered Air Purifying Respirators

3M™ Versaflo™ TR-300+ Powered Air Purifying Respirator



The Versaflo™ powered air system combines performance, protection and functionality with modern, stylish, lightweight design and comfort. TR-300+ provides respiratory protection for particulate environments. Does not provide gas and vapour protection.



3M™ Versaflo™ TR-600 Powered Air Purifying Respirator



3M™ Versaflo Powered Air Respirator System TR-600 provides protection against particulates, gases or vapours, or against a combination of these depending on the type of filter used.



3M™ Versaflo™ TR-800 Intrinsically Safe Powered Air Purifying Respirator



The 3M™ Versaflo™ Powered Air Respirator TR-800 with 3M™ Versaflo™ Battery TR-830 attached, is ATEX approved for use in certain potentially explosive atmospheres. It is approved to Zone 0 requirements and so may be suitable for areas where potentially explosive atmospheres are expected and permanent in normal operations.



3M™ Versaflo™ Powered Air Helmet, M-300 Series



3M™ Versaflo™ Helmets, M-300 Series feature lightweight, compact and well-balanced helmets that can offer integrated protection from a range of respiratory, head, eye, face and hearing hazards. It can be used with 3M™ Powered Air Respirators and Supplied Air Respirator Systems in a wide variety of applications.



3M™ Versaflo™ S-Series Hoods & Headcovers



3M™ Versaflo™ S-Series Hoods & Headcovers feature a range of hoods and headcovers that can be used in many 3M™ Powered Air Respirators and Supplied Air Respirator Systems combinations. They have been designed for a comfortable, stable fit and feature the innovative 3M™ Quick Release Swivel connection.



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General/Daily Facility Maintenance



Personal Safety Solutions

Respiratory Protection Equipment

Atmosphere-Supplying Respirators

3M™ Scott™ ELSA Emergency Escape Breathing Device-N



The 3M Scott ELSA EEBD-N respirator is a cost-effective emergency escape breathing device designed for simple use, training and maintenance. The carry bag offers improved functionality while the redesigned hood fits all wearers (study available upon request).

This respirator helps enable workers to escape from toxic environments, even in certain atmospheres defined by regulation as immediately dangerous to life or health (IDLH).



3M™ Scott™ Ska-Pak AT Supplied-Air Respirator



The 3M™ Scott™ Ska-Pak AT Supplied-Air Respirator has the added benefit of an automatic, hands-free air transfer capability to help reduce worker distress. The Automatic Transfer (AT) mechanism can detect an interruption in the supplied-airline air pressure and automatically switch to the escape cylinder air. Upon transfer, the Vibralert tactile alarm system activates, letting the user know that the respirator has transferred to cylinder air.



3M™ Scott™ Industrial SCBA (ISCBA)



The 3M™ Scott™ ISCBA provides IDLH level respiratory protection in non-fire related environments for most day-to-day industrial applications and is suitable for stand-by respiratory protection.

The NIOSH approved 3M™ Scott™ ISCBA features a simple, dependable single-stage pressure reducer combined with the 3M™ Scott™ E-Z Flo regulator with first breath activation. It has a sturdy wire-formed backframe with nylon or Kevlar® harness and options for extended duration airline.



3M™ Scott™ AV-3000 SureSeal Facepiece



The AV-3000 SureSeal uses SureSeal Technology for enhanced comfort and fit, and holds NIOSH approvals when used with a wide range of 3M Scott NIOSH respirators.

The facepiece versatility helps minimize equipment inventory, simplify user training, and reduce fit testing to help ensure lower cost of ownership. The AV-3000 SureSeal can be used with 3M™ Scott™ AV-632 Bayonet Adapter when using with 3M™ 6000 Series Cartridges or 3M™ Particulate Filter 2000 Series. Adapter sold separately.



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Line Breaking
Painting & Coating
Confined Space
(Entry & Work Inside)

Operations

Hazardous Material Handling/Transfers
Inspection & Sampling
General/Daily Facility Maintenance

Emergency Response (On-Site/In-Plant)





Hazmat/Spill
Confined Space Rescue

Personal Safety Solutions

Hearing Protection





Passive Hearing

3M™ PELTOR™ X Series Earmuffs

-  3M™ PELTOR™ X Series Earmuffs combine 3M™ PELTOR™ legendary hearing protection knowledge with our advanced technologies, creating a comfortable, durable earmuff.
-  A broad range of attenuation from 20 dB to 31 dB NRR. Different versions available including headband and cap-mounted attachments.
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3M™ E-A-R™ Classic™ Earplugs

-  3M™ E-A-R™ Classic Earplugs, the world's first foam earplugs, are made of a soft, slow-recovery foam that's designed to mold to the shape of the ear canal to help reduce exposure to noise. The slow recovery foam also helps with earplug insertion to give the user time to get the compressed foam cylinder (rolled down earplug) into the ear before the foam fully expands. A cylindrical shape is suited to fit most ear canal shapes and sizes. Classic earplugs with an NRR of 29 dB are for use in moderate noise environments. Available corded or uncorded.
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




3M™ E-A-R™ Push-Ins™ Earplugs

-  The 3M™ E-A-R™ Push-Ins™ Earplugs are designed for hearing protection on noisy jobs. Fitting stems help for an easier insertion of the earplugs even when wearing gloves and help keep the earplug clean for workers with dirty hands. No roll-down required—all it takes is a gentle push to insert the soft foam eartip into the ear canal. The EARform™ eartip has a smooth surface to help it slide easily into the ear canal. Push-Ins earplugs with an NRR of 28 dB are for use in moderate noise environments.
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3M™ E-A-R™ UltraFit™ Earplugs

-  3M™ E-A-R™ UltraFit™ Earplugs are made with a triple-flange design to contour to the different shapes and sizes of ear canals to help create a comfortable noise-blocking seal.
-  These earplugs are made of a pliable, soft polymer that can be washed so that the earplugs can be reused, cutting down costs and extending the product life. Ultrafit earplugs have a 25 dB NRR to help protect hearing in low to moderate noise environments.
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- 



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

-  Fit testing is key for effective wear and hearing conservation. The 3M™ E-A-Rfit™ Dual-Ear Validation System accurately quantifies each wearer's personal attenuation for both ears when wearing earplugs or earmuffs. Our system takes less than 5 seconds to measure across 7 standard frequencies and gives a simple pass or fail rating for each employee's personal attenuation rating (PAR) to facilitate training on the importance of fit.
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Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Line Breaking
Scaffolding
Aerial Lift/MEWP

Confined Space
(Entry & Work Inside)
Surface Preparation

Welding/Grinding/Cutting
Crane & Rigging
Painting & Coating

Operations

Hazardous Material
Handling/Transfers
Inspection & Sampling

General/Daily
Facility Maintenance
Production & Heavy
Equipment Operations

Personal Safety Solutions

Hearing Protection

Communication Solutions

3M™ PELTOR™ Electronic Earplug EEP-100



The 3M™ PELTOR™ Electronic Earplug helps protect your hearing, and can help improve situational awareness and communications in challenging environments. The earpieces are rechargeable via a USB port on the charging case. The small and lightweight design is portable and can be worn with head borne 3M Personal Protective Equipment (PPE), such as helmets and face shields.



3M™ PELTOR™ WS™ Litecom Plus Headsets



3M™ PELTOR™ WS™ LiteCom Plus Headset features integrated pre-programmed two-way radio, Bluetooth® Multipoint connectivity, noise-cancelling boom microphone, and a level-dependent function for ambient listening. Different configurations available, including headbanded and helmet attached versions. Works best for: Noisy environments where there is a need for communication, calls and ambient listening.



3M™ PELTOR™ LiteCom Plus Headsets



3M™ PELTOR™ LiteCom Plus Headsets are hearing protectors with a built-in analog two-way communication radio, noise cancelling boom microphone, Lithium-Ion battery and level-dependent functionality for ambient listening. Works best for: Noisy environments where there is a need for communication and ambient listening.



3M™ PELTOR™ WS™ LiteCom Pro III IS Headset - Hard Hat Attached - Intrinsically Safe



3M™ PELTOR™ WS™ LiteCom Pro III Headset is an Intrinsically Safe hearing protector with built-in analog and digital programmable two-way communication radio, Bluetooth® connectivity, and environmental listening with level-dependent functionality. All of this technology is combined with the professional-grade durability and all-day wearability you've grown to expect from PELTOR™. This headset is Certified by CSA Group as Intrinsically Safe for Use in Hazardous Locations.



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Line Breaking
Scaffolding
Aerial Lift/MEWP
Confined Space
(Entry & Work Inside)

Surface Preparation
Welding/Grinding/Cutting
Crane & Rigging
Painting & Coating

Operations

Hazardous Material
Handling/Transfers
Inspection & Sampling
General/Daily
Facility Maintenance

Production & Heavy
Equipment Operations

Emergency Response (On-Site/In-Plant)

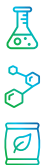
Hazmat/Spill
Fire
Confined Space Rescue
Rescue from Heights

Personal Safety Solutions

Protective Apparel

Protective Coveralls

3M™ Protective Coverall 4510



3M™ Protective Coverall 4510 offers economic protection against biological agents, hazardous dusts and limited liquid splashes. Our PE laminate includes micropores which allow heat and moisture to evaporate from the skin and out through the suit offering a light and comfortable yet protective solution. Type 5/6.



3M™ Protective Coverall 4530



3M™ Protective Coverall 4530 is made with a robust 54gsm breathable fabric that has a treatment to give limited flame spread resistance. Its breathability allows it to be worn for long periods of time and helps protect the wearer against solid airborne particulates and certain limited liquid splashes. The flame spread resistance treatment is tested to ISO 15025: 2016 and the fabric complies with ISO 14116: 2015 requirements for limited flame spread index 1. Type 5/6.



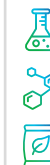
3M™ Protective Coverall 4565



3M™ Protective Coverall 4565 has desirable comfort features and provides a strong barrier to certain chemicals, liquid sprays and particles. It offers chemical protection with repellency and penetration tested resistance, yet is still breathable due to its micropores. Type 4/5/6.



3M™ Protective Coverall 4570



3M™ Protective Coverall 4570 is made of a strong 92gsm non-microporous PE laminate, featuring a double front closing system and large zip pulls for easy wear. This coverall provides an excellent barrier to liquid splashes, jet sprays and hazardous particles with permeation, repellency and penetration tested resistance. Type 3/4/5/6.



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Line Breaking
Confined Space (Entry & Work Inside)
Surface Preparation
Painting & Coating

Operations

Hazardous Material Handling/Transfers

Emergency Response (On-Site/In-Plant)

Hazmat/Spill

Personal Safety Solutions

Eye Protection



Protective Eyewear

3M™ SecureFit™ Protective Eyewear 500 Series



3M™ SecureFit™ 500 Series features a contemporary lens design coupled with adjustable ratchet temples and 3M™ Pressure Diffusion Temple (PDT) technology to help provide a more personalized fit. This sporty eyewear also offers self-adjusting colored temples, a variety of lens tints, and models with Scotchgard™ Protector Anti-Fog Coating.



3M™ Solus™ Protective Eyewear 1000 Series



3M™ Solus™ 1000 Series features contemporary styling with padded temples and soft nosebridge for added comfort, while offering a configurable design with removable foam gasket, strap or temple options. Ideal for dirty work environments with frequent temperature changes, Scotchgard™ Anti-Fog Coating resists fog 11x longer and has 7x better anti-scratch performance than traditional 3M™ Anti-Fog Coating. 3x thicker than traditional 3M™ Anti-Fog Coating, Scotchgard™ Anti-Fog Coating's active ingredient is bonded to the lens, increasing durability, up to 25 washings with water, without losing performance**



**Based on 3M internal testing of tap water wash cycles followed by anti-fog testing per EN168 test method.

Protective Goggles

3M™ GoggleGear™ Protective Goggle 500 Series



3M™ GoggleGear™ 500 Series features 3M™ Scotchgard™ Anti-Fog Coating that resists fog 11x longer and has 7x better anti-scratch performance than traditional 3M™ Anti-Fog Coating. 3M™ GoggleGear™ 500 Series feature a low-profile design with an adjustable strap, indirect ventilation, and can be disassembled for cleaning. Additionally, these goggles are D3 (droplet and splash) and D4 (dust) rated. Available in clear or grey lens tint, and with a nylon or neoprene strap.



3M™ GoggleGear™ Protective Goggle 3000 Series



3M™ GoggleGear™ Protective Goggle 3000 Series features a full-size design with wrap-around lens for improved field of vision, and slotted nose bridge for a more comfortable fit. Choose from models with anti-fog, anti-fog/anti-scratch, or 3M™ Scotchgard™ Anti-Fog coating. The GoggleGear™ 3000 is available with indirect venting for enhanced air circulation and anti-fog performance, and is D3, droplet and splash, and D4, dust, rated. Includes either an adjustable polyester cloth strap, or easy to clean adjustable neoprene strap, as well as an optimized shroud design with slots to accommodate many prescription eyewear. Acetate lens model meets the chemical resistance requirement of ISO 16321, helping protect workers from chemical hazards.



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Crane & Rigging
Painting & Coating

Operations

Hazardous Material
Handling/Transfers
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Emergency Response (On-Site/In-Plant)

Hazmat/Spill
Confined Space Rescue
Rescue from Heights



Personal Safety Solutions

Head & Face Protection

Head Protection

3M™ SecureFit™ Safety Helmet X5000 Series



3M™ SecureFit™ Safety Helmet X5000 Series features easily-adjustable 6-point ratchet suspension system with exclusive 3M™ Pressure Diffusion Technology, providing a secure and comfortable fit. The safety helmet offers six different settings to adjust positions and 4-point chin strap selector systems to switch between EN 397 (industrial safety helmets) or EN 12492 (helmets for mountaineers) certification standards. X5000 Series safety helmets are offered as vented or unvented, brimless and have 3M™ Uvicutor™ Sensors that indicate levels of exposure to damaging ultraviolet (UV) light.

Available in a variety of colors with optional reflective and work well with a range of faceshields and with 3M™ PELTOR™ Earmuffs and Communication headsets.



3M™ SecureFit™ Hard Hat H-700 Series



The 3M™ SecureFit™ H-Series Hard Hats provides 3M innovation in comfort while maintaining the traditional cap and full brim design that many prefer. If you wear a hard hat for a full shift, you want it to be comfortable and fit properly.

3M recognizes this and has responded by designing a suspension system that self-adjusts to the wearer as the ratchet is tightened. Chosen 9 times out of 10 over current conventional hard hats*, this suspension system flexes and self-adjusts to the size of the wearer's head, reducing forehead pressure and increasing comfort for all-day wear.



*End-user survey conducted by 3M, November 2020 – March 2021. Participants were allowed to keep the new 3M hard hat.



Face Protection

3M™ W-Series Faceshield, W96, Propionate



3M™ W-Series Faceshield W96 is a molded, propionate faceshield that helps provide chemical resistance. W96 is compatible with most 3M™ Faceshield Holders, X-Series Safety Helmets, H-700 Series Hard Hats and H-Series Headgear systems.



3M™ V-Series Faceshield, V2A-10P, Acetate



3M™ V-Series Faceshield V2A-10P is lightweight acetate faceshield that helps provide reliable face protection from splash while offering good ventilation. Compatible with 3M™ H-700 Series Hard Hats.



3M™ W-Series Faceshield, WP96, Clear Polycarbonate



3M™ W-Series Faceshield WP96 is a clear, polycarbonate faceshield that offers optical clarity and high-performance durability in unpredictable environments that involve exposure to impact hazards and flying debris. WP96 is compatible with most 3M™ Faceshield Holders, X-Series Safety Helmets, H-700 Series Hard Hats and H-Series Headgear systems.



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

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Personal Safety Solutions Welding



Chemical Exposures
(including airborne
particulates, gases
& vapours)



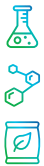
Flying
Objects



UV IR
VIS Light

Welding

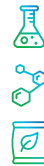
3M™ Speedglas™ Heavy Duty Welding Helmet, G5-01 Series



3M™ Speedglas™ Heavy Duty Welding Helmet, G5-01 is specifically designed for the heavy duty welder. The helmets flip up functionality allows you to seamlessly switch between welding and grinding tasks while maintaining powered air respiratory protection, head protection, optional hearing protection, and a flip-up welding shield.



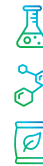
3M™ Speedglas™ Welding Helmet 9100 MP with welding filter 9100XXi and 3M™ Adflo™ Powered AirRespirator



The 3M™ Adflo™ Powered Air Purifying Respirator System with 3M™ Speedglas™ 9100 MP Welding Helmet is designed for the Heavy Duty welder that needs head protection. The helmets flip up functionality allows you to seamlessly switch between welding and grinding tasks while maintaining powered air respiratory protection. This solution is a 5 in 1 Welding Helmet, 1 respiratory protection, 2 head protection, 3 optional hearing protection, 4 face protection, 5 eye protection (Welding Filter).



3M™ Speedglas™ Welding Helmet G5-03 Pro and G5-03 Pro Air



The 3M™ Speedglas™ G5-03 Series Welding Helmet uses next-generation technology to help provide dynamic welding protection. Intuitively designed for the challenges faced on the job, this helmet setup includes a new Tap functionality. Just tap 3 times anywhere on either side of the helmet to activate grind or cut mode. Features 3M™ Speedglas™ Natural Color Technology, Variable Color Technology (with G5-01/03VC), and a Tack Welding Mode (with G5-01/03TW). The new optional helmet mounted Task Light delivers a better view of the work area before and after welding.



G5-03 Pro

An optional helmet adapter system enables the 3M™ Speedglas™ Welding Helmet G5-03 Pro to attach to various 3M safety helmets for welders requiring head protection.



G5-03 Pro Air

The 3M™ Adflo™ Powered Air Purifying Respirator with Speedglas™ G5-03 Pro Air Welding Helmet system provides high-efficiency particulate respiratory protection for welders in a robust, compact design with ergonomic, adjustable head suspension.



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Confined Space
(Entry & Work Inside)
Welding/Grinding/Cutting

Operations

Facility Maintenance

Personal Safety Solutions Confined Spaces

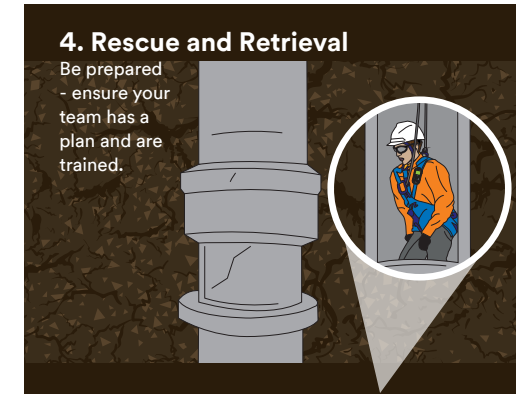
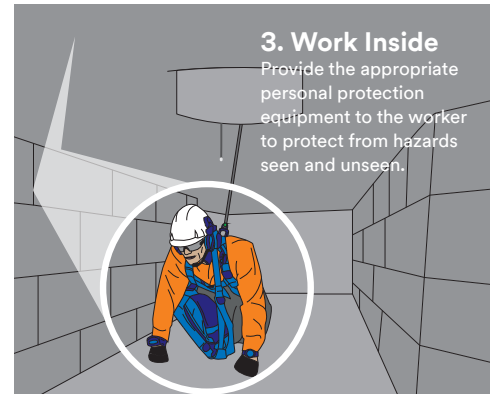
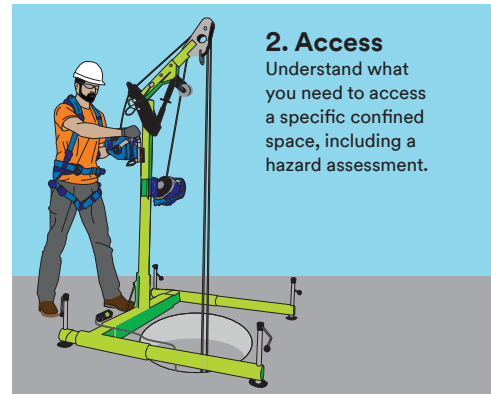
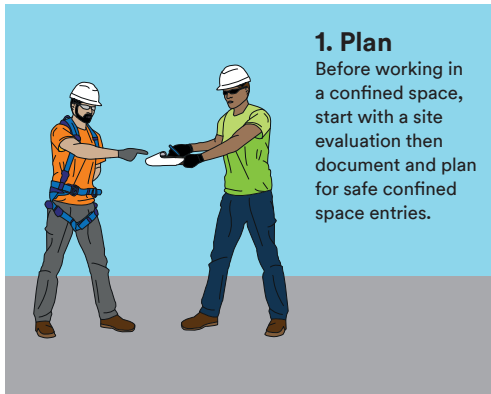
Confined spaces are partially or fully enclosed spaces that meet all of the following criteria:

- ▶ Large enough for workers to enter and perform certain jobs.
- ▶ Limited or restricted means for entry or exit.
- ▶ Not designed for continuous occupancy.

The range of possible confined spaces is also extensive. Type, size and hazards vary greatly, along with different standards, regulations and company policies that can apply to each working environment.

Elements of Working Safely in Confined Spaces:

Confined spaces can be complicated and anyone, in any industry, can be exposed to working in and around them. We break this complexity down to four major elements:



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Line Breaking
Confined Space (Entry & Work Inside)

Operations

General/Daily Facility Maintenance

Emergency Response (On-Site/In-Plant)

Confined Space Rescue

Personal Safety Solutions

Fall Protection

Anchorage

3M™ DBI-SALA® 5 Piece Long Reach Davit High Capacity System



The 3M™ DBI-SALA® Confined Space Davit System provides a complete confined space rescue and work support system. The modular design can be separated for easy transportation and storage. System comes with 3-piece

base, mast extension and davit arm. Our system is adjustable providing flexibility during installation. Certified to EN795:2012, EN1496:2006, & CEN/16415:2013. Conforms to OSHA 29 CFR 1910.140 and OSHA 29 CFR 1926.502.



3M™ DBI-SALA® Pole Hoist System



The 3M™ DBI-SALA® Pole Hoist System features a swivel head that rotates 360 degrees, providing unparalleled flexibility in both vertical and horizontal confined-space entries.



Body Support

3M™ DBI-SALA® ExoFit™ X-Series Safety Harnesses



The 3M™ DBI-SALA® ExoFit™ X200 is designed with high-quality components that have been developed to enhance the harnesses safety, fit, and functionality while working at height on your job site. The X200 comfort harness is built with 6,000 lb. polyester webbing, nylon/polyester hybrid comfort padding and robust alloy steel hardware. Dorsal D-ring connections are faster and easier with the stand-up back D-ring.



The anti-slide back D-ring plate design helps reduce dorsal D-ring slide and enables a convenient adapter location for connecting personal SRLs. There are also locking torso-adjustment and quick-connect buckle options available to help your team maintain a safe and comfortable harness fit.



Descent & Rescue Devices

3M™ DBI-SALA® Digital Winch Series



3M™ DBI-SALA® Digital winches are rated for a maximum working load of 205 kg (450 lbs). This winch has two cranking speeds capable of retrieval/descent from 4 m/min (13 ft/min) to 9 m/min (30 ft/min).



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Line Breaking
Scaffolding
Aerial Lift/MEWP
Confined Space (Entry & Work Inside)
Crane & Rigging

Operations

General/Daily Facility Maintenance

Emergency Response (On-Site/In-Plant)

Confined Space Rescue
Rescue from Heights

Personal Safety Solutions

Fall Protection

Connecting Devices

3M™ DBI-SALA® Sealed-Blok™ Self-Retracting Lifeline



Our 3M™ DBI-SALA® Sealed-Blok™ Retrieval Self-Retracting Lifeline, has been designed to stand up to the harshest environments. With all the features of our standard Sealed-Blok™ plus a 3-way retrieval winch. The heavy-duty design is corrosion resistant, with stainless steel endplates and aluminium housing. For reliability and quality fall protection in applications such as oil and gas rigging, confined space, saltwater environments, dirty environments and sewage plants, Sealed-Blok™ has many years of service in the field.



3M™ DBI-SALA® Smart Lock Self-Retracting Lifeline



3M™ DBI-SALA® Smart Lock Self-Retracting Lifelines are our smartest SRLs yet. From reducing nuisance lockups, to simplifying inspections, every detail of the new 3M™ DBI-SALA® Smart Lock Self-Retracting Lifeline is designed with helping workers perform with safety and convenience. Using advanced motion capture technology, we studied the forces applied to the SRL during typical at-height tasks. This data helped us engineer a new arrest mechanism that can more easily detect the difference between a fall and normal work motion, tailoring an SRL for your work application.



3M™ DBI-SALA® Nano-Lok™ Personal Self-Retracting Lifeline



3M™ DBI-SALA® Nano-Lok™ Self-Retracting Lifeline (SRL) with Anchor Hook is designed for ease of use and is ideal for direct connection to most harnesses. The SRL's extremely compact and lightweight design is virtually unnoticeable on one's back, staying out of the worker's way and making it ideal as a lanyard replacement.



Fall Protection for Tools

3M™ DBI-SALA® Safe Bucket



3M™ DBI-SALA® Safe Bucket with closure system for workers at height carrying heavy loads.



3M™ DBI-SALA® Coil Tethers



Use 3M™ DBI-SALA® Fall Protection for Tools tool tethers when working at height to drastically reduce the hazard of falling object incidents.



Customer responsible for determining appropriate PPE based on occupational workplace hazard and risk assessment.

Applications:

Turnarounds & Maintenance

Line Breaking
Scaffolding
Aerial Lift/MEWP
Confined Space (Entry & Work Inside)
Crane & Rigging

Operations

Hazardous Material Handling/Transfers
General/Daily Facility Maintenance

Emergency Response (On-Site/In-Plant)

Confined Space Rescue
Rescue from Heights

Important Notice

This guide is only an outline. It should not be used as the only means for selecting 3M products. Before using any 3M products, the user must read and understand the User Instructions for each product. Specific country legislation must be observed. If in doubt, contact a relevant professional. Selection of the most appropriate PPE will depend on the particular situation and should only be made by a competent person knowledgeable of the actual working conditions and the limitations of PPE. Final determination as to the suitability of these products for a particular situation is the employer's responsibility. This information is subject to revision at any time. Always read and follow all User Instructions and technical information supplied with 3M products. in order to ensure correct operation. If you have questions contact 3M Technical Service.

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3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., OSHA, ANSI), as well as all product literature, user instructions, warnings, and other limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, death, or property damage. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.

This is a partial product listing. For a complete listing, or more information, contact your 3M Official Distributor.



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