3M. Putting the Safety into Chemistry.

Personal protective equipment is especially in the chemical industry in many areas indispensable. It is essential to protect users from health risks and keep them save during the different processes. As one of the leading companies within the PPE market 3M is providing several products and solutions for hazards working environments to keep the people safe in the Activities in the chemical industry that possibly pose hazards to the head, the eyes and the face include:

- when filling and decanting hazardous substances.
- when opening valves or repairing pipelines or equipment.
- through dripping or splashing of chemicals.
- through falling objects.
- when bumping heads against protruding objects.

Safety. Comfort. Productivity.

Extreme conditions. Best possible protection.

A multitude of different types of operations and working conditions present specific challenges to the health and safety departments to ensure occupational health and safety of the workers in the chemical industry. The 3M product range is optimally matched to these challenges and offers professional personal protective equipment for many applications. Particularly important - as is pointed out in the PPE Directive 89/656/EEC - is the compatibility of the accessories. The 3M products not only meet these requirements but also offer particularly high wearing

> 3M™ 5A-CP Acetate faceshield with dded chin protection and anti-fogging coating.

Flexible solutions for hazardous operations.

3M™ Safety Helmet G3000. Available in different versions (ventilated/unventilated) and various colors.

> Many options for safety and highest comfort.

MAINTAIN PRODUCTION AND **COMMUNICATE AT A DISTANCE!**

3M™ PELTOR™ WS™ LiteCom PRO III 403-470 MHz analogue/digital, ATEX version enables wireless communication in noisy surroundings.

- Easy to use.
- Bluetooth® technology
- Integrated, programmable Two-way radio.
- Long range.
- Low power consumption.
- Situational awareness with level-dependent function.
- Protection against noise.
- Perception of the ambient noise
- Rechargeable Lithium-ion-battery.



Modular. Compatible. Flexible.



X2P5E helmet attachment yellow, SNR = 30 dB,



red, SNR = 32 dB,



X4P5E Helmet attachment neon yellow, SNR = 32 dB, with helmet adapter P5E

black, SNR = 36 dB.

X5P5E Helmet attachment

3M™ Tuffmaster H8 headgear. With acetate faceshield WP98. Other 3M solutions for the chemical industry.

3M™ Safety Googles Series 2890 to protect against liquid splashes, dust and gasses are available optionally with acetate or polycarbonate lenses, sealed or with indirect ventilation and with the durable Scotchgard™ anti-fog coating.



3M™ Reusable Respirator 4279+ FFABEK1P3 R D

3M™ Versaflo™ Powered Air Turbo TR-800 Intrinsically Safe (IS) Powered Air Turbo and Battery TR-800 Series are ATEX Certified for use in potentially explosive atmospheres whilst offering the comfort, modularity, control and ease of use expected from the 3M[™] Versaflo[™] platform. Exchangeable components enable you to put together a blower respiratory protection system, which meets the requirements of your individual application and working environment. The blower unit can be equipped - depending on the

application - with different headtops.





3M™ Safety Googles Series 2890

3M[™] Maintenance Free Reusable Respirator 4279+ Engineered for improved breathing ease, this evolution of 3M's most popular maintenance-free reusable half mask is convenient to use, reassuringly reliable and now offers measurable improvements in comfort. With no parts assembly or maintenance required this simple, lightweight well balanced respirator offers reliable respiratory protection against a range of gases, vapours and particulates typically found in a variety of industries. A unique bonded carbon technology allows the respirator to sit close to the face and fit well under many other types of protective equipment, providing an undisturbed field of vision and a

- New enhanced exhalation valve assembly reduces breathing resistance by over 30%.
- Low profile design for better peripheral vision.
- Lightweight, well balanced design.

more comfortable worklife.

- Soft, non-allergenic material with textured face seal.
- Proven to consistently exceed EU standard requirements for breathing ease.



3M™ Versaflo™ Powered Air Turbo TR-800

The 3M™ Versaflo™ lightweight hoods of the S-Series convince through very good air distribution, noise reduction. a large field of vision and soft, coated sealants for face and neck. They correspond to the highest possible protection level TH3. The visors offer besides a distortion-free vision, a tested eye- and face protection according to EN166:F. The lightweight hoods of the S series are available as practical disposable bonnets or as hoods for multiple use available.

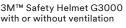
BM™ Versaflo™ Helmets M-300 Series feature lightweight, compact and well-balanced helmets that can offer integrated protection from a range of respiratory, head, eye, face and hearing hazards. M-300 Series helmets meet the highest respirator performance requirements (TH3) for this type of product when used with specific 3M[™] Air Delivery Units. They are also tested and approved to EN397-Head protection. Another option is to use them together with 3M™ PELTOR™ LiteCom headsets: M-300 Helmets offer the possibility to communicate effectively whilst protecting your hearing in noisy

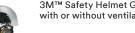


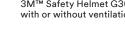


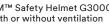














- Available in 7 colours: O • •
- Slim, slightly rounded design.
- Complies with the EN 397 standard
- Headband easily replaceable, available in plastic or leather for increased comfort
- Optional printable surface (e.g. logo, brand name etc.).
 Optionally available with 3M™ Scotchlite™ reflexible fabric strip.

3M™ Safety helmet G3000 certified to EN 50365 for 1000 Volt electrical insulation.



3M™ Safety Helmet G3001 -

3M™ Faceshield Holder V5

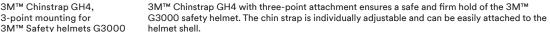
3M™ Chinstrap GH4,

3M™ PELTOR™ WS™

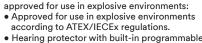
LiteCom PRO III EX Headset

- 3M™ Acetate Faceshield with chin protection 5A-CP
 - Robust acetate visor offers chemical resistance and impact strength. • Transparent chin guard for protection of the chin against splashes and free downward view for
 - chemical industry applications. Meets the requirements of EN166 level FT.
 - Coating provides anti-fogging properties certified to EN166, marking N

The 3M™ Faceshield Holder V5 has been specially designed for mounting the 5-series 3M™ Faceshields for the G3000 safety helmet series. The faceshield holder can be attached either to existing helmet mounted earmuffs or, if no hearing protection is required, attached to the adapter P3E



3M™ PELTOR™ WS™ LiteCom Pro III EX Headsets are our high-performance hearing protectors



- analogue/digital two-way radio. Push-to-listen quick activation of level dependent function.
 External connection lack.
- Program up to 70 unique radio channels.
- Bluetooth® multipoint connectivity allows seamless
- nnection of mobile devices.
- 3M™ Helmet version X2P5E. SNR = 30 dR 3M™ Helmet version X4P5E, SNR = 32 dB
- Voice operated transmission (VOX). • Lithium-Ion rechargeable battery.

Noise cancelling waterproof microphone.

• Level-dependent technology helps

improve situational awareness and

- Helmet mounted model.
- 3M™ Helmet version X3P5E. SNR = 32 dR 3M[™] Helmet version X5P5E, SNR = 36 dB

communication.

Spare sealing rings and damper pads. Replaced in a few simple steps to ensure good functioning





3M™ H8 Headgear with ratchet headband

ear muffs, 1 pair

3M™ Hygiene Kits for

3M™ P3E Adapter without

3M™ SecureFit™ Safety

*combinable with WP 98

3M™ Faceshield Holder U5B-CE for SecureFit™ Safety

Acetate visor (in combination

with U5B connection system)

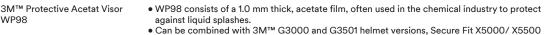
Helmet X5000 Series*

3M™ Earmuffs X Series- helmet version

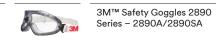
- High-strength thermoplastic headband.
 - Impact protection over a wide temperature range • Adjustable ratchet closure provides a comfortable, snug fit.
 - Upper headband with five possible settings for extra support and comfort.

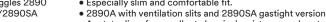
P3E-adapter for attaching faceshield holder V5 to the helmet G3000.

- Suspension system incorporates exclusive patented Pressure Diffusion Technology. • 4-point or 6-point ratchet suspension allows wearer to customize height and fit.
- Compatible with a variety of 3M visors, earmuffs and other accessories • Proprietary UV indicator that lets wearer know when to replace helmet due to UV exposure.
- Available in a wide range of colours also in reflective versions.



- helmet versions and 3M™ H8 head mount. • WP98 meets the requirement for protection against low energy impacts, marked as F (45 m/s).
- 3M™ U5B-CE Faceshield Holder for SecureFit™ Safety helmets for the combination with WP98 acetate visor.





- Especially slim and comfortable fit.
- Acetate discs for excellent chemical resistance and protection against particles with
- Durable Scotchgard[™] anti-fog coating certified to EN166, marking N, reduces fogging and
- Easy to adjust nylon headband for safe and comfortable wear



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