A systematic approach to total welding protection
Ask any experienced welder about the hazards of the job and eye protection usually comes top of their list. But here at 3M we’ve never lost sight of the bigger picture. And nor should you. Here’s why...

For more than 30 years some of the welding world’s most advanced eye and face protection has been developed and manufactured by 3M. Yes, like you, we take eye and face protection extremely seriously. Unfortunately, there are other less obvious hazards that may affect your welders’ health and productivity. Respiratory issues resulting from long-term exposure to airborne particles, gases and vapours are becoming increasingly evident, presenting additional responsibilities for welding managers and safety officers.

Study reveals cause for concern.
A study investigating Occupational Asthma* suggests that an average-aged 45 year-old stainless steel welder may accumulate 22.4 years of exposure to varying degrees of harmful particles/fumes throughout his working life.

On average, however, it may take up to 18 years before the onset of respiratory symptoms become apparent. Like smoking, inhalation of certain welding contaminants may take years before their effects are revealed.


Shortness of breath was the most frequently reported work-related problem, whilst 62% of workers also had nose and throat symptoms that could be attributed to welding fumes. Of those studied only 6% were considered able to continue welding.

An integrated modular solution.
Thankfully, 3M is able to offer an elegant modular solution that will both protect your welding teams from eye and face injury whilst helping to prevent work-related respiratory problems.

By integrating selected 3M helmets and headtops with our 3M™ Adflo™ Powered Air Respirator, it’s easier than ever to configure bespoke eye, face and respiratory protection as well as providing a cooler and more comfortable environment for each welder in your team.
Did you know

Welders without respiratory protection are more prone to a lung infection that can lead to severe and sometimes fatal pneumonia.

When it comes to high-level protection, comfort and versatility, 3M™ Speedglas™ Welding Helmets and Headtops have always kept one step ahead of the competition. And a rather big step at that.

But now, hooked up to our latest generation of lighter, more comfortable 3M™ Adflo™ Powered Air Respirators or the 3M™ Versaflo™ V-500 Regulator, they create a complete welding protection system that will keep your team safer and more productive than ever before.

**Key**

- Optimised for:
  - Welding
  - Grinding
  - Respiratory Protection
  - Head Protection

Our powered air respiratory systems start here...

- Introducing the new generation 3M™ Adflo™ Powered Air Respirator
  - Ambient air filtration unit: Connects directly to our selected helmets/headtops

Or, for when an air fed solution is preferred...

- The 3M™ Versaflo™ V-500 Supplied Air Regulator
  - Connects directly to our selected helmets/headtops


Let’s start welding.

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Did you know welding metals with paints and greases on them can create toxic gases, which may require the use of gas and vapour filters as well as particulate filters to protect the welder.

Did you know metal fume can have a wide variety of particle sizes from 0.001 microns to 100 microns. Most of these particles are too small to be able to be seen by the naked human eye. The average width of the human hair is 100 microns.

Features + Technical Specifications

Did you know some hazardous fumes and gases cannot be filtered at all, in which case supplied air may be a preferred choice.

The 3M™ Versaflo™ V-500 Supplied Air Regulator provides a constant air flow from a compressor to a 3M helmet or headtop.

Key Features

- Lithium ion re-chargeable battery: More than 40% lighter than original NiMH battery
- Stackable filter system: Allows for filters to be combined to provide protection against particles, gases and vapours
- Respiratory Protection: 3M™ Adflo™ Powered Air Turbo
- Head Protection: EN 397
- Grinding Protection: EN 166 B T
- Flip Up Grinding Visor
- Fully adjustable head suspension
- Ergonomically optimised head suspension system

Dimensions/Weight/Accessories

| Main body (inc. standard / heavy duty battery) | 230 x 179 x 67 mm / 230 x 205 x 67 mm | 1219 g / 1392 g |
| Filter types | P2, P3, N95, N99, N1, HEPA, Gas filter ABE1, Gas filter A2 |

Ordering: Part Numbers

For further information please visit 3M.co.uk/speedglas

3M™ Speedglas™ 9100 Air & 9100FX Air Welding Helmets

Did you know welding helmets and headtops in the Speedglas range come with a choice of three auto-darkening filters: V (45x93mm), X (54x107mm) and XX (730x107mm).

Ordering: Part Numbers

For further information please visit 3M.co.uk/speedglas

3M™ Speedglas™ 9100MP Welding & Safety Helmet

Did you know welding helmets in the Speedglas range come with a choice of three auto-darkening filters: V (45x93mm), X (54x107mm) and XX (730x107mm).

Ordering: Part Numbers

For further information please visit 3M.co.uk/speedglas

3M™ Versaflo™ M-Series Headtops

Did you know pre-filters can be used to help extend the life of a particle filter – saving you money!

Unsure about which gases and vapours can or cannot be filtered?

Simply go to 3m.co.uk/safety and download our filter selection guide.
Ongoing customer support

To help keep your systems working just as they should, and to ensure your welders are getting the most from your investment, our support team at 3M is able to offer assistance on several levels:

- **Care and Maintenance Packs**
  Guidance on the appropriate checks is provided in the instruction booklets supplied with all new equipment. Our Care and Maintenance Packs contain information sheets and posters to make this information accessible on a day-to-day basis and are a strong visual reminder.

- **Record Cards**
  As part of the COSHH regulations monthly checks on equipment must be recorded. Template record cards can be downloaded from our website.

- **Air Quality Testing Service**
  For airfed respirators. Our engineers will visit and carry out testing and certification.

- **Welding Specialists**
  Based across the country and supporting our distributor network our welding specialists have a sound understanding of UK health & safety law coupled with years of experience in the welding market.

- **Helpline**
  Call 0870 60 800 60 (UK) or 1 800 320 500 (Ireland) for any technical queries. Open 0900-1700hrs Mon-Fri.

All the support material featured on this page can be downloaded and printed. Just go to: 3M.co.uk/maintenancepack
Why choose 3M as your welding partner?

World class innovation: Innovation is at the core of everything we do. 3M™ Speedglas™ Auto-Darkening Welding Technology is a perfect example in the way we recognised an industry need and then went on to revolutionise welding safety. From personal safety and healthcare, to vehicle graphics and computer security, our inventions provide customers with tools and methods to help them perform more productively and more safely than they could ever have imagined.

Product excellence: Imaginative, ergonomic design. Intelligent integration of world-leading proprietary technologies. Dependable performance. All built into everything we do.

Knowledge and expertise: Our local technical teams and product specialists are constantly amassing knowledge gained across their chosen industries. They understand 3M products inside out; they’re up to speed with working practices and regulations; and, should they not be able to answer a customer question or resolve an issue, then there is always someone in our global organisation who can.

Committed to service and support: Many companies look no further than to simply sell. But not 3M. When a customer buys one of our products or systems that’s just the beginning. We provide fit and air quality testing, for example. We can offer on-going technical support via our dedicated helpline or personal visits from our welding specialists. We can help you meet mandatory servicing requirements. In fact, we can be with you all the way.

That’s why.

For more information on all our products, call 3M Personal Safety Division on 0870 60 800 60 (UK) and 1800 320 500 (Ireland) or visit www.3M.co.uk/safety