



3M™ Speedglas™ Welding Safety

Ergonomics Are Our Passion, And Your Lifeline

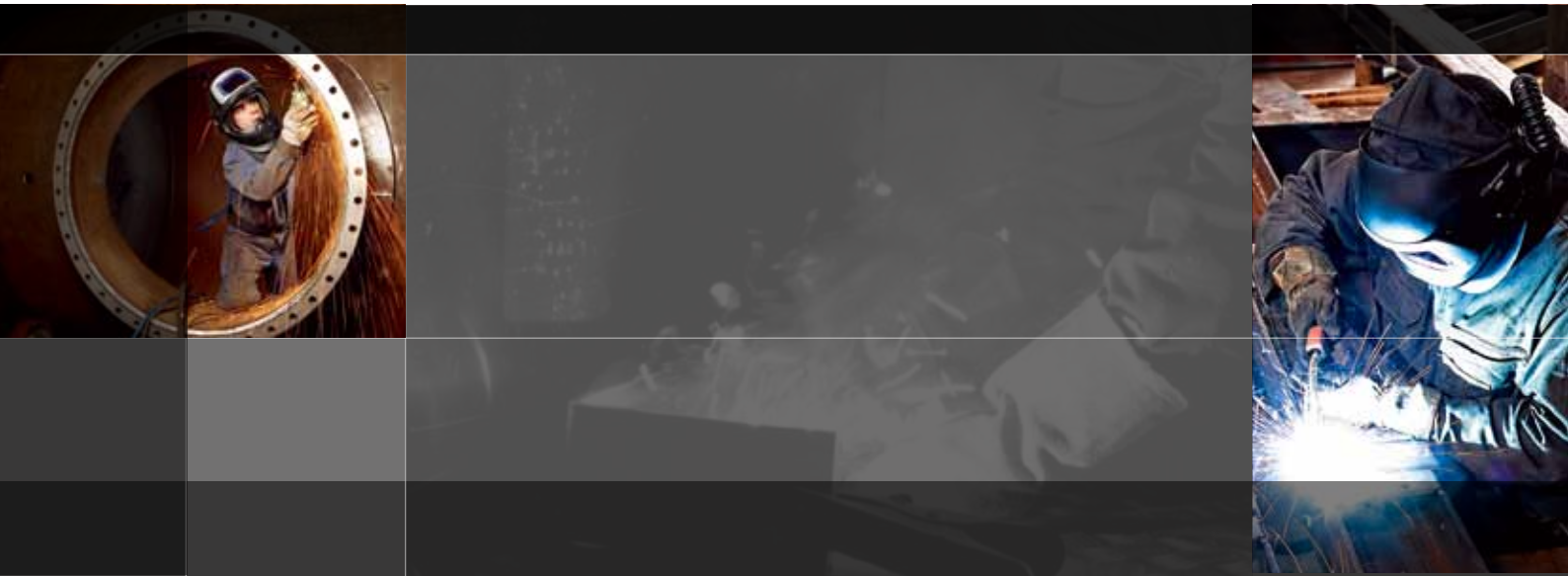
More than 35 years ago, we went to the shipyards of Sweden to observe welders. They blindly struck arcs as they continually nodded their helmets down. They got accidentally flashed by other welders - or even themselves. We asked, "What if ... welders could always see, even with their helmets down?"

Since then, we've been systematically addressing every welding ergonomic challenge you face.

VISIT US at www.3M.eu/speedglas



Visit our website to learn about our latest news.
Just scan this QR Code with your smart mobile
device!



Experience the Future of Welding Protection!

Your patience has been rewarded with three new 3M™ Speedglas™ Welding Helmets, offering flip-up function and/or respiratory protection. Each model also has all of the features of the top-of-its-class 3M™ Speedglas™ 9100 Series Welding Helmets.

- Superior Comfort
- Increased balance and stability.
- Excellent optics and bigger views.
- Increased coverage of ears and sides of neck.
- New flip-up welding helmet with clear protective visor.
- New respiratory welding helmet options.

To experience the difference, call your local 3M dealer for a hands-on demonstration.



3M™ Speedglas™
9100 Air Welding Helmet

3M™ Speedglas™
9100 Welding Helmet

3M™ Speedglas™
9100 FX Welding Helmet

3M™ Speedglas™
9100 FX Air Welding Helmet

3M™ Speedglas™ 9100 Series Welding Helmets



reddot design award
best of the best 2009

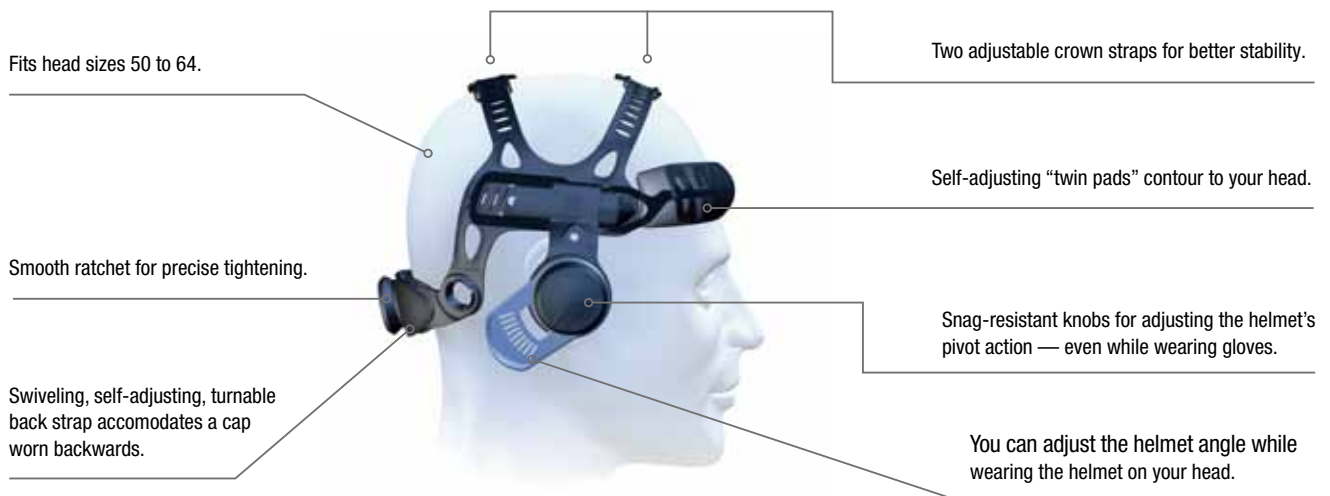


product design award
2009

The headband that shapes to your head

All Welding Helmets in the 3M™ Speedglas™ 9100 Series feature a highly adjustable, comfortable headband. The outside of the human head is lined with nerves, arteries, and acupressure points; applying pressure to some of these spots actually makes a person feel fatigued. The 9100 Series Headband specifically avoids these vulnerable areas.

And it provides multiple adjustment combinations so you can “tailor” the helmet to fit your personal preferences and comfort settings. Less pressure — and a perfectly-adjusted, personal fit — means more comfort, all day long.



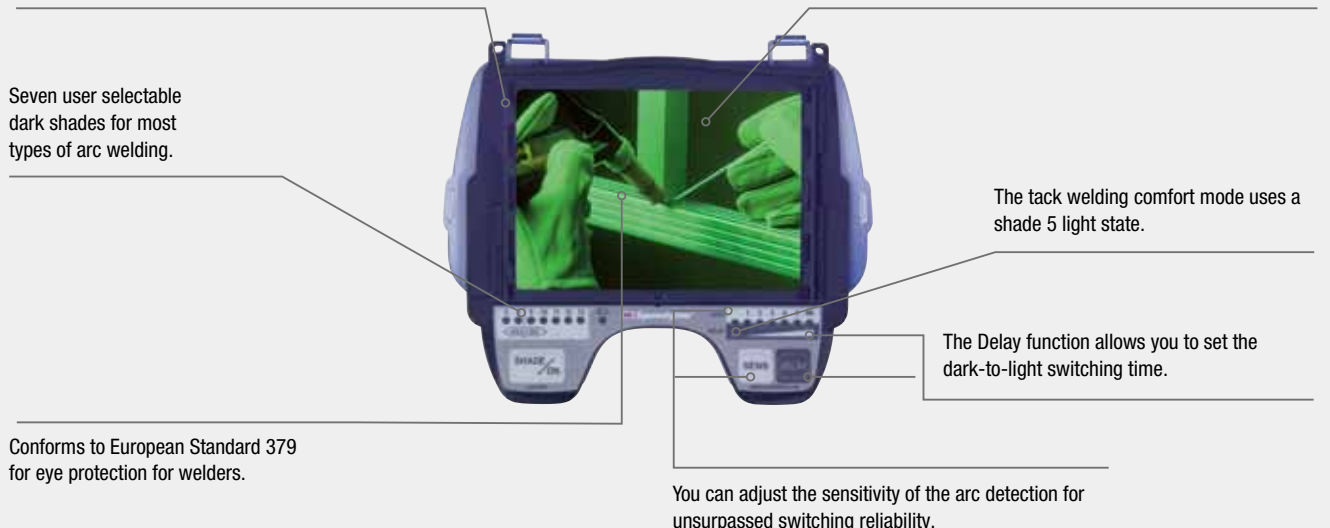
Excellent Optics, Bigger Views

The 3M™ Speedglas™ 9100 Series Welding Filters continue our tradition of outstanding optical quality, including uniform shading and minimal distortion across the entire filter viewing area. By selecting just the right

setting for each task, you reduce eye strain and improve the quality of every weld. The 9100XX Filter is 30% larger than any other Speedglas welding filter.

Magnification made easy. The magnifying lens holder is built into the welding filter, making lens installation easier and more secure.

The Speedglas 9100 Series includes three auto-darkening welding filters: regular (9100V), large (9100X), and extra large viewing area (9100XX).



3M™ Speedglas™ 9100 Welding Helmet



Designed for Ultimate Protection

Protecting your eyes and face from radiation, heat and sparks — while providing a precise view of your work — makes your 3M™ Speedglas™ 9100 Welding Helmet one of your most important welding tools.

The new 3M™ Speedglas™ 9100 Air Welding Helmet can be used in combination with powered or supplied air respiratory protection.



3M™ Speedglas™ 9100 Welding Helmet
Classification 1/1/1/2
Conforms to EN 175:B and EN 379



3M™ Speedglas™ 9100 Air Welding Helmet
All of the benefits of the 9100 Welding Helmets can now be used in combination with powered or supplied air respiratory protection.



Extended protection:
3M™ Peltor™ H505B Ear muffs, a flame-resistant headcover (both used in this application) and an ear/neck protection are available as accessories.



Airflow in 9100 Air Helmet:
The middle channel keeps the filter virtually fogfree, while two side channels provide smoothly distributed air to the area of your mouth and nose.

3M™ Speedglas™ 9100 FX Welding Helmet



Wider Field of View with Flip-Up Front

Introducing the Speedglas 9100 FX Welding Helmets, a flip-up combination of an auto-darkening welding helmet and a protective visor. Not only is the viewing area larger compared to previous models, we totally redesigned the geometry of the helmet for a wider field of view in all directions.

For constant TH3-rated respiratory protection and excellent vision in a flip-up model, meet the new 3M™ Speedglas™ 9100 FX Air Welding Helmet. It readily connects both powered and supplied air respirator systems.

100% compatible with our top-of-the-line series of 3M™ Speedglas™ 9100 Welding Filters.

The big, 17 x 10 cm clear protective visor is curved, increasing your peripheral vision.

Exhaled air is channelled out via side exhaust vents.



SideWindows: Shade 5 filters that widen your field of vision.

High-comfort Speedglas 9100 Headband.

A quick lift of the silver front and you get a big, 17 x 10 cm, clear view — perfect for precision grinding in low light conditions, while maintaining respiratory protection.

3M™ Speedglas™ 9100 FX Welding Helmet

Classification 1/1/1/2

Conforms to EN 175:B, EN 166:BT and EN 379



3M™ Speedglas™ 9100 FX Air Welding Helmet

Improved respiratory protection — TH3. Reduced inward leakage means better breathing air quality. The breathing tube is attached to the headband instead of the helmet.



To achieve its high level of respiratory protection, air is supplied directly to the breathing zone. A diffuser spreads out the airflow for your maximum comfort.



3M™ Adflo™

Powered Air Respirator



Cooler, cleaner and more comfortable welding

With its smart, compact design, the award-winning 3M™ Adflo™ Powered Air Respirator is specially designed to meet your welding needs. Its continuous airflow provides filtered air that takes much of the heat and sweat out of welding. By using the Adflo respirator, you get both increased protection and comfort all day long.

For welding environments where supplied air respiratory protection is needed, 3M™ approved air regulators can be used.

With the right type of filter, the Adflo respirator effectively protects you against both particles and gases — all in one system.

You can selectively replace either the particle or the gas filter as needed: you don't need to change both filters at the same time.

The slim profile is perfect for use in tight spaces. Its ergonomics are based on your need for lightweight, adaptable and easy-to-use respiratory protection.



The airflow is always a constant nominal rate of 170 litres per minute, regardless of the battery's charge or the particle loading of the filter. For hot, humid jobs, you can increase the airflow to 200 litres per minute by simply pushing the ON button a second time



3M™ Speedglas™ 9100 Air Welding Helmet with 3M™ Adflo™ Respirator

Welding helmet with auto-darkening filter. Ergonomic welder protection with optimal mobility and ease-of-use. Conforms to EN 12941 (TH2). NPF* 50.



3M™ Speedglas™ 9100 FX Air Welding Helmet with 3M™ Adflo™ Respirator

Welding helmet with auto-darkening welding filter and a 17 x 10 cm clear visor for weld preparations. Excellent for low-light conditions and continuous eye, face and respiratory protection. Conforms to EN 12941 (TH3). NPF* 500.



* The nominal protection factor based on laboratory-measured performance data according to European Standards.

The protection factor is assigned by local authorities in each European country and can therefore be different for each country.

3M™ Speedglas™ 100 Series Welding Helmets



High-End Features, Low-End Price

Speedglas 100 Series Welding Helmets allow you to take advantage of excellent optical quality and reliable light-to-dark switching at a highly affordable price. In addition to the black model, you can choose from several highly expressive graphic helmet designs.

Appropriate for most arc welding processes, including MMA, MIG/MAG and high amp TIG welding.

High impact rating according to the requirements of the European Standard EN 175:B.

The Speedglas 100 Welding Helmet is compatible with most 3M™ Maintenance-Free Welding Particulate Respirators.



Switching speed (light to dark) of 0.1 ms.

3M™ Speedglas™ 100V Welding Filter: Five adjustable dark shades 8-12 and a light shade of 3. Three sensitivity settings.

3M™ Speedglas™ 100S-10 and 100S-11 Welding Filters have single dark shades of 10 and 11, respectively, and a light shade of 3.

Dark shade can be increased to 13 or 14 using upgrade plates.

Make a Visual Impact



3M™ Speedglas™ SL Welding Helmet



When Your #1 Priority is Super Light

At a mere 360 grams — including its auto-darkening filter — the 3M™ Speedglas™ SL Welding Helmet is 25% lighter than any other Speedglas model. Using specialised manufacturing techniques, we greatly reduced the weight of the auto-darkening filter. And unlike other

lightweight helmets that can absorb moisture and become heavy, the Speedglas SL helmet is made from a strong, non-absorbent material. Designed specifically for quick welding tasks, a motion sensor automatically turns ON the welding filter when you pick up the helmet.



Our narrowest helmet: perfect for super tight spaces.

Five adjustable dark shades 8–12 and a light shade of 3. Four sensitivity settings.



Grab & Go:
A motion sensor automatically turns ON the welding filter when you pick up the helmet.

Appropriate for most arc welding processes — such as MMA, MIG/MAG, TIG and plasma welding.

Dark shade can be increased to 13 or 14 using upgrade plates.

3M™ Speedglas™ SL Welding Helmet

Classification 1/1/1/2

Conforms to EN 175:F and EN 379



with the 3M™ Peltor™ G3001 Hard Hat

The Peltor G3001 Hard Hat is produced in high quality UV-stabilised ABS plastic and it got top result for absorbing and distributing forces from fallen objects. This hat is one of the lightest hard hats on the market.

To fit with the Speedglas 100 welding shield the hard hat lining has been turned 180 degrees (and it is CE-approved in this position).

Meets European standard EN 397.



reddot design award
winner 2007



product
design
award
2008