

3M Science.
Applied to Life.™



More than 35 years ago, we went to the shipyards of Sweden to study welders working conditions. We found skilled craftsmen blindly striking arcs as they continually nodded their shields down. From that point on, we committed ourselves to developing tools that would forever improve the world of the welder. From the first groundbreaking auto-darkening welding helmet in 1981 to our current lineup of state-of-the-art welding safety products, we continue to revolutionize your world.

Inspired by your reality

We have a passion for welding and we know the challenges of your profession. We share the passion and pride you put into your welding. So it is natural for us to want to address the ergonomic, safety, and health challenges facing your every day. Your thoughts and opinions are the bottom line in our continuous search for innovation. Inspired by your reality, we shape the future of welding so you can get on with the job of shaping ours.



3M™ Speedglas™
Welding Helmet 9100

 **Speedglas™**

3M™ Speedglas™ Welding Helmet Series 9100 – our top-of-the-line safety platform for professional welders

In the product development process for our 4th generation of 3M™ Speedglas™ Welding Helmets, we systematically studied welders to identify global customer needs of a welding helmet. The result was a long list of welding

helmet concerns important to the welder, where the three highest ranked became key factors applied in each model within the 3M™ Speedglas™ Welding Helmet Series 9100.

Project start



Voice of customer summary

- 1 Protection against radiation
- 2 Comfortable to wear
- 3 Reliable performance



1 Coverage is key!

Helmet coverage is a concern among many welders. So we made the 9100 series welding helmets deeper and wider, improving coverage of ears, neck and sides of the head from heat and welding sparks. In addition there are several accessories available to extend coverage.

2 More comfort, less fog

Less pressure and stable fit means improved comfort: The 9100 high-comfort headband is designed to avoid pressure on vulnerable areas of the head. It also provides several adjustment combinations for maximum personal tailoring and helmet stability.

The 9100 series helmets' improved exhaust vents help reduce heat, humidity and fogging of the welding filter.

3 Reliable performance!

The key to remember with 3M™ Speedglas™ Auto-darkening Welding Filters is consistency. They enable consistent, comfortable viewing and provide protection from ultraviolet (UV) and infrared (IR) radiation, at all times, in all states. They consistently auto-switch from light state to dark state, and back again, to help increase productivity while you weld.

Field trials and quality verifications

Real-world validation of design concepts and international field trials of prototypes are used to verify our products before they are released. Multiple rigorous objective tests are made to ensure all products meet or exceed international safety standards and requirements well before they reach end-users.



High-performing products for high-performing people

The 3M™ Speedglas™ Welding Helmet Series 9100 includes six welding helmet models offering many options, including flip-up welding shields, safety helmets, and respiratory systems. If you haven't experienced these innovations in welding protection, call your local 3M reseller for a hands-on demonstration.



Our own brand of problem-solving



3M makes protection solutions for people in very challenging situations: for example military combat, first responders, shipbuilding and industrial manufacturing, as being an innovator in worker health and safety by relentless questioning: “Can we make this device somehow safer?”.

We apply our own brand of problem-solving and we have regularly received awards for our contributions to ergonomic design and functions. Real-world validation of design concepts and international field trials of prototypes are used to verify our products before they are released. Multiple rigorous objective tests are made to ensure all products meet or exceed international safety standards and requirements well before they reach end-users



reddot design award
best of the best 2009

Design and function

Characteristics like outstanding user comfort, the simplest possible operation and maintenance, unprecedented ergonomics and optimum safety have brought us many design awards.

To name a few:

- European design prize 1997.
- iF Industrie Forum Design 1997, 2001, 2008 and 2009.
- Excellent Swedish Design 1997 and 2001.
- Plant Engineering's Product of the Year 1997 and 2001.
- RedDot Design Award 2007, 2009 and 2012.
- IDEA International Design Excellence Award 2009 and 2012.



A headband that shapes to your head

Less pressure and stable fit means improved comfort: the 3M™ Speedglas™ Welding Helmet Series 9100 high comfort headband is designed to avoid pressure on vulnerable areas of the head. It also provides several adjustment combinations for maximum personal tailoring and helmet stability.

As a result you do not need to tighten the headband as much as you do on conventional headbands to firmly hold the helmet stable on your head

3M

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