

3M™ Speedglas™ 9100 MP Welding & Safety Helmet

Multi-Protection: Eye & Face, Head, Respiratory and Hearing



 **Speedglas™**



Protection makes
Confidence



Head Protection without Compromises

Heavy Industries Requiring Multi-Protection



Construction



Shipbuilding/Marine



Power Generation



Offshore



Heavy duty maintenance



Mining

The New Standard For Multi-Protection Systems

Projects are getting bigger: windmills, ships, skyscrapers, power plants, mines, offshore rigs.

But as those structures get crowded with cranes, beams and fellow workers, overhead hazards multiply, while powerful welding arcs quickly generate clouds of menacing fumes.

Until now, a welder's options for head and respiratory protection were limited, and without much acceptance. Until now.

Introducing our latest addition to the 9100 Series: the 3M™ Speedglas™ 9100 MP (Multi-Protection) Welding & Safety Helmet. We've seamlessly integrated 5 levels of welder protection: head, eye, face, respiratory and hearing into one extraordinarily comfortable and easy-to-use system.

The 9100 MP Helmet: uncompromising, all-in-one, welding protection for highly demanding environments.



Protection + Precise Vision = Confidence

Can you feel secure in ill-fitting equipment? Of course not. That's why we offer you precise adjustment settings for the headband and face seal. After you've tailored them to precisely profile your head and face, don the helmet and

delight in its balance. Admire the smooth motion as you raise and lower the visor. Feel the comfortable fit and remind yourself you're wearing a full safety helmet.



Look Around... Really Look Around

The clear protective visor is big (17x10 cm), curved and with great views up, down and side-to-side. It's perfect for prepping and inspecting welds...and just walking around your facility with full-time, TH3-class respiratory protection. Then, pull down your welding shield and appreciate the exclusive SideWindows views: you can have peripheral vision at all times, even when welding.

The Most Advanced Feature Set Available

100% compatible with all of the latest 3M™ Speedglas™ 9100 Series Auto-Darkening Welding Filters, including the top-of-the-line 9100XX Filter.

Two proprietary shade 5 passive SideWindows add peripheral welding vision.

The top shell is made from heat resistance polycarbonate and meets the latest EN 379 standard for industrial safety helmets. An optional, high-visibility, aluminum fabric reflects hot sunlight and welding heat.

A big (17x10 cm), curved, protective visor with excellent views up, down and peripherally. Meets EN 166:B for high speed particle protection*



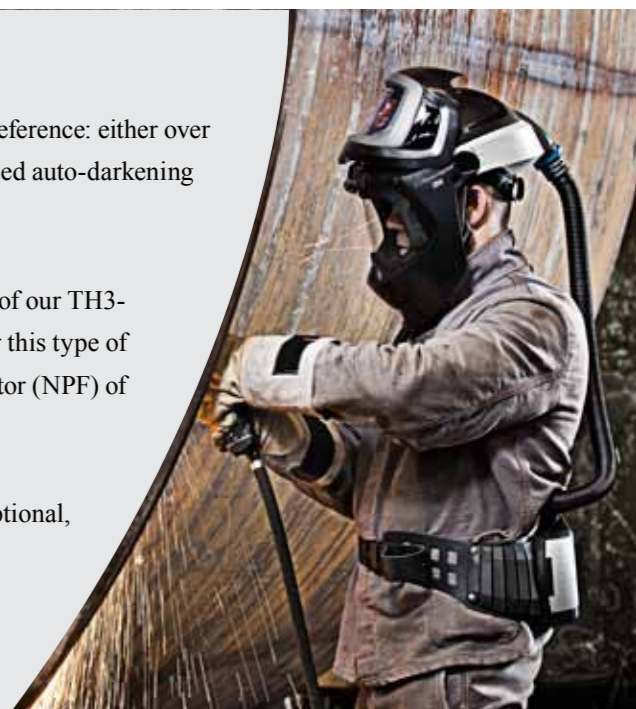
Designed from inception to take one of our optional 3M™ Peltor™ H31 Earmuffs: low-profile hearing protection with liquid/foam ear cushions and high-visibility orange housings.

Performance made simple

Turn on your 3M™ Adflo™ Powered Air Respirator and set your airflow preference: either over your visor or face. Dial in your filter settings and enjoy the fast, unsurpassed auto-darkening switching of your Speedglas 9100 Welding Filter as you weld.

What can you smell, or taste, from the weld? Anything? That's the power of our TH3-classed respiratory design — the highest respirator performance rating for this type of welding protection. You're now benefiting from a Nominal Protection Factor (NPF) of 500.**

Finally, turn down the noise. By 22 dBA, to be exact, using one of our optional, low-profile 3M™ Peltor™ H31 Earmuffs. It's your world of protection — get comfortable in it.



* European Standards classify this visor as "B," with resistance to high speed particles at medium energy impact (120 m/s).

** Nominal Protection Factor: a number derived from the maximum percentage of total inward leakage permitted in relevant European Standards for a given class of respiratory protective devices.

Fully Mobile, TH3-Classed Respiratory Protection



The award-winning 3M™ Adflo™ Powered Air Respirator is especially designed for you, as a welder. Its slim profile, light weight, and ergonomic design goes into tight welding spaces. And you can simply add a gas filter to the particle filter — and selectively replace either filter as needed.

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

The Adflo Respirator, combined with the 3M™ Speedglas™ 9100 MP Helmet's unique air delivery system achieves a Nominal Protection Factor (NPF) of 500.

Light In Weight, With Higher Airflows











3M™ Versaflo™ V-500E Supplied Air Regulator is a balanced, belt-worn, easy-to-adjust regulator that consistently delivers the airflow level you set — from 170 l/m to 305 l/m.

An integrated silencer keeps the airstream equivalent to a typical conversation. The regulator's warning whistle sounds if there is low airflow from the regulator. Air tools can be connected to a port on the regulator without reducing the airflow to your helmet.




The Versaflo V-500E regulator, combined with the 3M™ Speedglas™ 9100 MP Helmet's unique air delivery system achieves a Nominal Protection Factor (NPF) of 200.



Build Your Own 3M™ Speedglas™ 9100 MP Respirator System

<p>3M™ Speedglas™ 9100 MP Welding helmet</p> 	<p>3M™ Speedglas™ 9100 Series Welding Filters</p>  <p>9100V Filter</p>  <p>9100X Filter</p>  <p>9100XX Filter</p>	<p>3M™ Adflo™ Powered Air Turbo</p>  <p>3M™ Versaflo™ V-500E Supplied Air Regulator</p> 	<p>Breathing Tubes with QRS (Quick Release Swivel) connection for Powered Air Respirator</p>  <p>Self-adjusting</p>  <p>Heavy-duty rubber</p>
<p>Options for Safety Helmet</p> <ul style="list-style-type: none"> • 3M™ Peltor™ Earmuff Kit • Reflective aluminum fabric helmet cover • Shroud for neck and shoulder coverage: • Peel-Offs for protective visor 			

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Technical Specifications	with 9100XX Welding Filter 	with 9100X Welding Filter 	with 9100V Welding Filter 
Viewing area (welding filter)	73 x 107	54 x 107	45 x 93
Classification	1 / 1 / 1 / 2		
Dark state	Shade 5, 8, 9-13		
Light state	Shade 3		
UV/IR protection	Shade 13 (permanent)		
Switching time	0,1 ms (+23 °C)		
Approvals: Eye & Face protection Welding shield Welding filter Protection plates Visor plates Approval: Head Protection	EN 175:B EN 166:B* EN 166:B* EN 379		
Approval Head Protection Approvals: Respiratory protection / NPF** 3M™ Adflo™ Powered Air Turbo 3M™ Versaflo™ V-500E Supplied Air Regulator	EN 352-3 EN 12941 (TH3) / NPF 500 EN 14594 (3B) / NPF 200		

* European Standards classify this visor as "B," with resistance to high speed particles at medium energy impact (120 m/s).
** The nominal protection factor base on laboratory-measured performance data according to European Standards.
The protection factor is assigned by local authorities in each European country and can differ from country to country.

Where Do We Find Our Inspiration? We Learn From the Best.

Based on our extensive know-how and our long experience of welders' working conditions, we constantly emphasise innovation in developing equipment that will increase welding performance. To give us your comments, and to see our latest developments, visit www.speedglas.com.



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3M

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