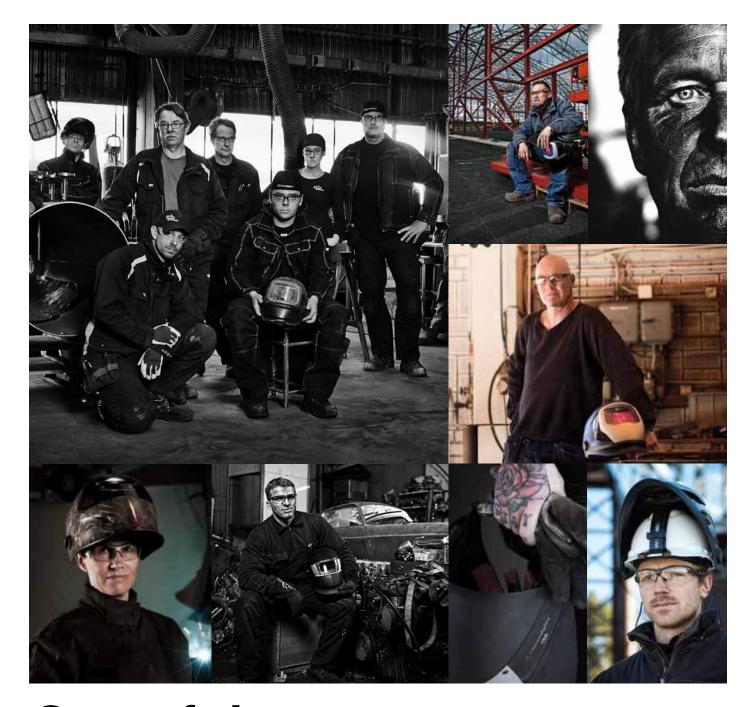


Speedglas Welding Safety

3M[™] Speedglas[™] Welding Safety Catalog 2018

Do your best with our best welding helmets

#3MScienceofSafety



One of the most important lessons we have learned over the last 35 years is that no two welders are the same.

How to find your customized welding helmet combination

We have compiled—into this one, easy-to-reference catalog—much of the information you'll need to select specific welding safety products and/or entire welding PPE systems.

From the choices below, pick your key selecting factor and then go directly to that chapter. Or try our main <u>selection guide</u> on page 24.



Your responsibility—our solutions...

Typically, professional welders know about the hazards to their eyes and faces. But other hazards—like welding fumes—are sometimes not so well known.

It is the responsibility of the employer to identify any hazards in a work environment, and to provide the workers with adequate protection.

Hazards must be adequately explained. Then ideally the choice of protective equipment can be made after a joint consultation between employers and employees.



1. Identify the hazards

Make a list of all the hazards in your welding environment (radiation, sparks, fumes, noise, trip hazards, falling objects, etc).



2. Assess the risk levels

By evaluating every hazard, you can prioritize their mitigation. See more details in each section of this catalog. If there are any doubts or ambiguities, always consult a professional health and safety engineer.



3. Select the right type of equipment

Determine your protection based on equipment type (e.g., eye, face, head, hearing), the level of protection needed to work in a specific application, and your users' preferences. Personal preferences - a key to user acceptance - covers issues including comfort, style, and ease of maintenance.



4. Training, motivation and maintenance

For maximum benefit from any piece of PPE, it pays to focus on user acceptance and proper use. 3M can help:

- On-site training by 3M personel or a visit from our Safety Roadshow.
 We'll show you equipment options based on your needs.
- 3M eAcademy the flexible way to discover and learn throughout your busy day: www.3m.com/3M/en_US/3m-academy/log-in
- Other techniques, such as Toolbox Talks, educational posters for your facilities, online videos, etc.





I need to weld with greater clarity

Truer colors and contrasts with 3M™ Speedglas™ Natural Color Technology: see page 14



I want to see around me

We recommend our welding helmets with side windows that widen your field of vision when welding: see page 26



I want to breathe fresh air

Our powered respirators are a favorite among many welders: see page 44



I need convenient head protection

Hard hat solutions tailor-made for our welding shields: see pages 29 and 33



I do precise grinding

Check out our welding helmets with flip-up visors, they have a curved, clear protective visor underneath the welding filter: see page 31–33

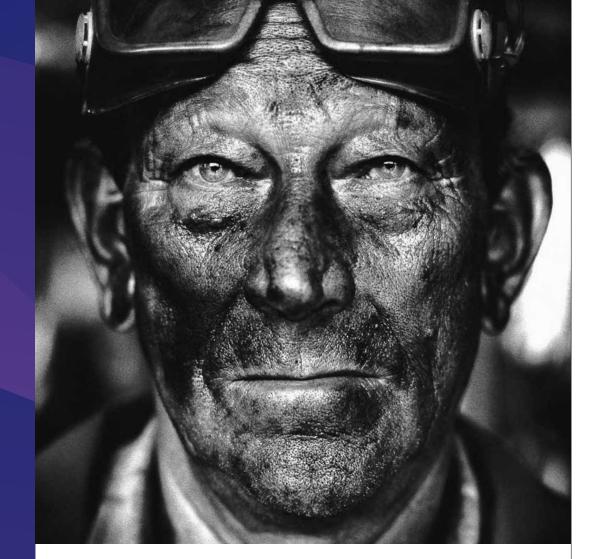


I like lightweight welding helmets

Great! Try our most lightweight auto-darkening welding helmet: Speedglas SL, see page 36

Your eyes

| How to beat the statistics | - - |
|-----------------------------------------------------------------|--------|
| The science behind 3M auto-darkening technology | 8 |
| Pay-off in productivity and performance | 10 |
| Selector 1 - decision tree for welding filters | 12 |
| 3M [™] Speedglas [™] Natural Color Technology | 14 |
| 3M™ Speedglas™ Auto-Darkening Filters | 16 |
| 3M [™] Evewear - selection for welding helmet users | 18 |



How to beat the statistics

Welding processes typically generate hazardous ultraviolet/ infrared radiation and (intense) visible light that have the potential to cause permanent eye damage. Physical eye hazards include welding spatter and grinding particles.

Controlling exposure

A well-designed welding helmet and filter has a positive influence on the protection of your face and eyes from heat, spatter and radiation.

Put simply, auto-darkening welding filters allow welders to keep their welding helmet in place much more often than passive welding filters.

If you can see well, the motivation to constantly lift your shield is significantly reduced, meaning:

- You may reduce the likelihood of exposure to harmful UV/IR radiation by accidentally striking an arc. Or being exposed to the arcs of nearby welders.
- You may reduce the potential for foreign body eye injuries from grinding swarf or weld spatter.

Costs associated with workplace eye injuries: \$300M/yr

Each year in the US alone, more than \$300 million is spent on costs associated with workplace eye injuries, including medical expenses, workers' compensation, and lost production time.

Source: www.osha.gov/SLTC/ eyefaceprotection (01.03.2017)

90% of injuries preventable with proper protection:

More than 90% of serious eye injuries at work can be prevented using appropriate protective eyewear.

Source: www.preventblindness.org/ eye-safety-work (01.03.2017)

1/4
of all welding injuries is of the eye

Eye injuries account for one quarter of all welding injuries, making them by far the most common injury for welders.

https://ohsonline.com/Articles/2007/02/ Preventing-Eye-Injuries-When-Welding.aspx (01.03.2017)

When the helmet is worn properly, the UV/IR bandpass filter is always in place and will provide protection from hazardous light radiation. This protection is maintained throughout the entire welding process.

Improving upon what the welder sees

Your goal is to weld consistently great welds. Our goal is to provide you with eye and face protection and also improved optics for better clarity.

"Because we make many of our own welding filter components, we can readily test and transfer new technologies," says Kristina Magnusson, Senior Optics Specialists at the 3M Welding Center of Excellence. "And, of course, this allows better control over the entire manufacturing process."

Kristina is one of the Center's four full-time optics specialists. Her responsibilities include liquid crystal cells, polarizers, and interference (UV/IR) filters. She also leads an international ISO task group of experts focused on eye and face protection standards for auto-darkening welding filters.

Like many of her co-workers, Kristina is a long-time employee. "I had just got my master's degree in engineering physics with a focus on optics when I was recruited to develop test instruments to measure the light diffusion of Speedglas welding filters. I've been here ever since.



"Of course, safety is the prime consideration when it comes to welding PPE. But the 3M optics team aims to help welders even more by continuously improving the optical experience of our welding filters. "We're constantly exploring new optical technologies that we can leverage to the welder's advantage."

How auto-darkening filters work



Before:

With the helmet in the safe down position, you have a clear view through the welding filter. Both of your hands are free and the electrode can be precisely positioned.



During:

Within a millisecond of the arc strike (for 3M™ Speedglas™ Welding Filters, see page 13), the filter has switched to the dark state.



After:

The filter automatically returns to the clear state after welding is complete, allowing your immediate inspection of the weld pool, as well as preparation for the next weld.

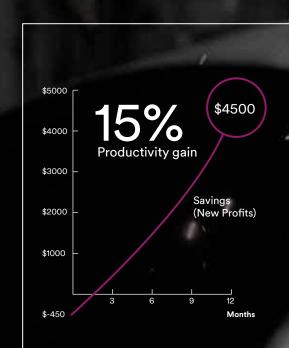
What other equipment pays for itself in two months?

Not only can you weld faster when you can see more clear, but your entire movement around your workpiece can become more efficient when you're not constantly having to raise and lower your shield.

We've studied welders and their increased efficiency when using our auto-darkening filters (ADFs) for almost four decades:

- The shorter the weld, the greater the productivity increase. Not surprising, applications requiring lots of tack welds have the most to gain.
- Where the final appearance of the weld is critical—for example, on high-value items reduction in scrap alone (e.g., from bad starts) can quickly pay for our helmets.
- Since most welders do a combination of tack and longer welds, we use an estimate of 15% gain in productivity. Of course, results may vary depending on your specific operation.

So, for example, if you're paying a welder \$20 per hour, a 15% improvement in productivity will pay for a \$450 helmet in about two months and result in a year-end increase in savings (new profits) of \$4500 when compared to continuing to use passive filters. Note: USD amounts are approximate and may vary.



\$28,280

Average cost of injuries to the face, including disabling and non-disabling eye injuries.¹⁾

20,300

Lost work days in 20121)

Ask yourself

Are you doing everything possible to maximize the amount of time your welders have their shield in the safe, down position?



A sample decision tree when selecting a welding filter

- Would you benefit from seeing more natural colors and contrasts?

 The 3M™ Speedglas™ Auto-darkening Filters 9100XXi and 9002NC both allow you to more readily recognize colors. The light state is still shade 3, but the filter appears lighter, more detailed, and better able to view contours. More details on page 14–15.
- Do you occasionally change shade numbers?

 If yes, you have plenty of models to pick from: all of our auto-darkening filters have variable (selectable) dark shades, as shown in the table on page 13.
- What does your welding process require from your filter?

 This is a key decision factor. Using the table on page 13, pick a model that does well in the processes you use frequently.

You might want to also consider your needs for specific dark shade levels, light-to-dark switching sensitivity, and dark-to-light delay options which are features that vary from model to model.

- How important is the size of the welding filter's viewing area?

 For many welders, the ability to see more of their workpiece without moving their helmet or head is very important. For these "big picture" people, the 9100XX or 9100XXi models will be most appropriate.
- Do you do a lot of tack welding?

 Then our tack welding comfort mode may be for you. The comfort mode setting may help reduce eye fatigue caused by your eye constantly adjusting to differing light levels during tack welding. It's available on 9100XX, 9100X and 9100V filters.

Recommended shade numbers according to ANSI Z49.1:2012

| Welding process | | Current in amperes A | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----|----------------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-------|-----|-----|-----|-----|----------|
| | 1.5 | 6 | 10 | 20 | 30 | 40 | 60 | 80 | 100 | 125 | 150 | 160 | 200 | 225 | 250 | 300 | 350 40 | 0 450 | 500 | 600 | 700 | 800 | 900 1000 |
| Shielded Metal Arc | | | | | | | | | 10 | | | | 12 | | | | 14 | | | | | | |
| Gas Metal Arc Welding | | | | | | | | | 11 | | | | 12 | | | | 14 | | | | | | |
| Gas Tungsten Arc Welding | | | 10 | 0 | | | | 12 | ! | | | | | | 14 | | | | | | | | |
| Air Carbon Arc Cutting | | | | | | | | | | 12 | | | | | | | | | | | 1 | 4 | |
| Plasma Arc Welding | | 6-8 | | | | 10 | | | | | | | 12 | | | | | | 14 | | | | |
| Plasma Arc Cutting | | 4 | | 5 | | 6 | 8 | | | | (| 9 | | | | 12 | 2 | | 14 | | | | |
| Carbon Arc Welding | | | | | | | | | | | | | 14 | | | | | | | | | | |
| | 1.5 | 6 | 10 | 15 | 30 | 40 | 60 | 80 | 100 | 125 | 150 | 160 | 200 | 225 | 250 | 300 | 350 40 | 0 450 | 500 | 600 | 700 | 800 | 900 1000 |

The table recommends best dark shade of welding filter for various working applications.

According to the conditions of use, the next greater or the next smaller scale number can be used.

3M™ Speedglas™ Auto-Darkening Filters

Selector table

| | | | | ● Best¹) | Better¹) | Good¹) | ×Not Rec | ommended ¹⁾ |
|--------------------------------------------------------------------|-------------------|-------------------|----------------------------|---------------------------|-----------------------------|------------------------------|----------------------|------------------------|
| Specification | 9100XXi | 9100XX | 9100X | 9100V | SL | 9002NC | 100V | 10V |
| MMAW (electrode) | • | • | • | • | • | • | • | • |
| MIG/MAG | • | • | • | • | • | • | • | • |
| TIG (>20A) | • | • | • | • | • | • | • | • |
| TIG (1A-20A) | • | • | • | • | • | • | × | × |
| Plasma (welding and cutting) | • | • | • | • | • | • | × | × |
| Risk for hidden arc | • | • | • | • | • | • | × | × |
| Tack welding | • | • | • | • | • | • | • | • |
| Grinding | • | • | • | • | × | • | • | • |
| 3M [™] Speedglas [™] Natural Color Technology | Yes | | ١ | No | | Yes | N | lo |
| Switching time, dark-light | 40-800 ms | | 40-1300 ms | | 60-250 ms | 60-400 ms | 40-250 ms | 60-250 ms |
| Switching time, light -dark | | | | 0.1 ms | (+23° C) | | | |
| Dark state | | Shade 5 | , 8, 9–13 | | | Shade | 8–12 | |
| Light state | | | | Sha | ide 3 | | | |
| UV/IR Protection (permanent) | | Shac | de 13 | | | Shade 12 | | Shade 13 |
| Viewing area, approx. | | x 4.2")7 mm) | 2.1 "x 4.2" (54×107 mm) | 1.8" x 3.7" (45×93 mm) | 1.68" x 3.57" (43×91 mm) | 2.13" x 4.09" (54×107 mm) | | 3.66" 3 mm) |
| External grinding mode control | Yes ²⁾ | | | | No | | | |
| Auto ON | Yes | | No | | Yes | | No | |
| Solar cell | N | lo | Y | es | | N | 0 | |
| Battery lifetime (hours) | 1800 | 2 000 | 2 500 | 2 800 | 1500 | 2 000 | 15 | 00 |
| Number of sensors (arc detection) | 3 2 | | | | | | | |
| Classification (perEN 379) | | 1/1/1/2 1/1/1/2 1 | | | | | 1/2/2/2 | 1/2/2/2 |
| Approval (welding filter) | | ANSI Z8 | 7.1 - 2010 | | ANSI Z87.1 - 2003 | ANSI Z87.1 - 2015 | ANSI Z87.1 - 2003 | ANSI Z87.1 - 2010 |

¹⁾ The ratings (best - better - good - not recommended) above refer to the products listed in this chart and should be seen as general recommendations based on differences in product comfort features and configuration options when using these selected Speedglas welding helmet series.

²⁾ When used with the front cover 9100XXi and the 3M[™] Speedglas[™] Welding Helmets 9100, 9100-QR or 9100-Air, see page 28.

Helmet selector: page 42



Still seeing green?

Imagine what more realistic-looking colors and details could do for you:

- Provide better control of your weld puddle with a view that appears lighter, brighter, and more realistic.
- Help you focus on your welding set-up, welding technique, and inspection of just-completed welds.
- Give you a clearer view of colored welding machine controls—even with your helmet in the safe, down position.

See the difference!





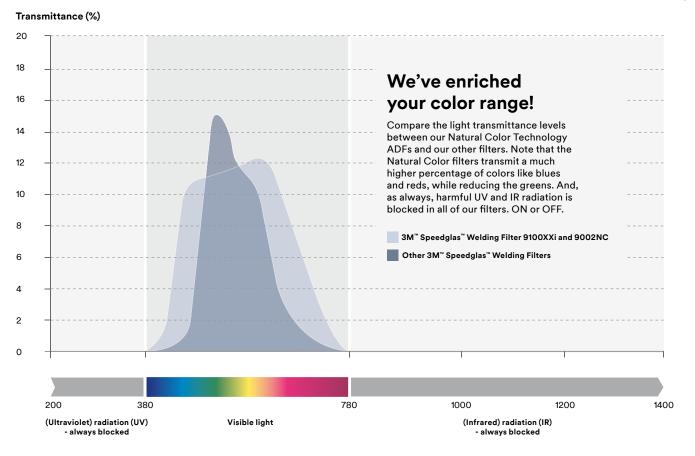


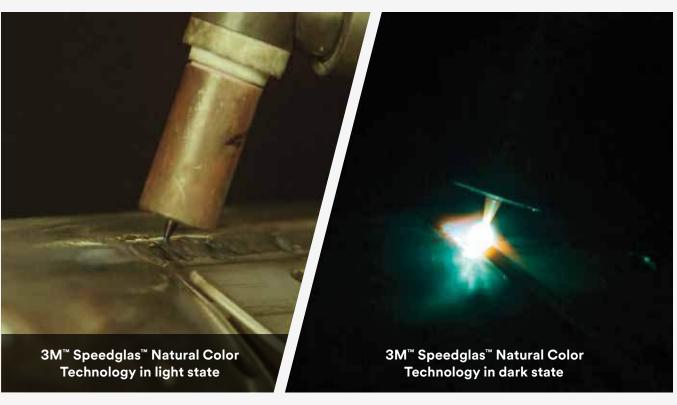
66

The view seems lighter and less green—I can see colors far better! Even in the dark state, I see contours better.

Veteran Welder

"





Great clarity before, during and after welding when using the 3M[™] Speedglas[™] Welding Filters 9100XXi or 9002NC. Such clarity can be great for seeing the nuances of curved joints.

Your choice of auto-darkening filters (ADF)

The 3M™ Speedglas™ Welding Filter Series 9100 continues 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 can reduce eye strain and improve the quality of every weld.





3M[™] Speedglas[™] Auto-Darkening Filter 9100XXi:

- See your welds in a new light, with more contrast and natural-looking colors.
- Grab and go welding with Auto-ON.
- 2.8 × 4.2 in. viewing area.
- Dark shades 5, 8, and 9 through 13.
- Delay settings allow the welder to extend the dark state for when the weld pool is still cooling.
- For all 3M[™] Speedglas[™] Welding Helmet Series 9100. See page 26-33.
- When used with the special 9100XXi Silver Front Panel and the Speedglas Welding Helmets 9100, 9100-Air and 9100-QR, you'll have access to the external control for both grinding and the memory modes. More details on page 29.





3M™ Speedglas™ Auto-Darkening Filter 9100XX

- 2.8 × 4.2 in. viewing area.
- Dark shades 5, 8, and 9 through 13.
- Any shade can be "locked-in".
- The tack welding comfort mode may help reduce eye fatigue resulting from the eye constantly adjusting to differing light levels during tack welding. Using an intermediate light state (shade 5).
- The delay function allows the welder to set the recovery delay of the welding filter from dark to light according to welding method and current.
- For all 3M™ Speedglas™ Welding Helmet Series 9100. More information on page 26-33.



3M[™] Speedglas[™] Auto-Darkening Filter 9100X

- 2.1 × 4.2 in. viewing area.
- Dark shades 5, 8, and 9 through 13.
- Any shade can be "locked-in."
- The tack welding comfort mode may help reduce eye fatigue resulting from the eye
 constantly adjusting to differing light levels during tack welding. Using an intermediate light
 state (shade 5).
- The delay function allows the welder to set the recovery delay of the welding filter from dark to light according to welding method and current.
- For all 3M™ Speedglas™ Welding Helmet Series 9100. More information on page 26–33.



3M™ Speedglas™ Auto-Darkening Filter 9100V

- 1.8 × 3.7 in. viewing area.
- Dark shades 5, 8, and 9 through 13.
- Any shade can be "locked-in."
- The tack welding comfort mode may help reduce eye fatigue resulting from the eye constantly adjusting to differing light levels during tack welding. Using an intermediate light state (shade 5).
- The delay function allows the welder to set the recovery delay of the welding filter from dark to light according to welding method and current.
- For all 3M[™] Speedglas[™] Welding Helmet Series 9100. More information on page 26-33.

3M[™] Speedglas[™] Auto-Darkening Filter 9002NC

See your welds in a new light, with more contrast and natural-looking colors.

- 2.1 × 4.2 in. viewing area.
- Dark shades 8 through 12.
- For 3M[™] Speedglas[™] Welding Helmet series 9002NC" compatible with the old 9000 series welding helmets, more information on page 34-35.



3M[™] Speedglas[™] Auto-Darkening Filter SL

Our most lightweight auto-darkening filter.



- Dark shades 8 through 12.
- For 3M™ Speedglas™ Welding Helmet SL, more information on page 36–37.



3M[™] Speedglas[™] Auto-Darkening Filter 100V

- 1.7 × 3.7 in. viewing area.
- Dark shades 8 through 12.
- For 3M[™] Speedglas[™] Welding Helmet Series 100 (incl 100-QR), more information **on page 38.**



3M[™] Auto-Darkening Filter 10V

- 1.7 × 3.7 in. viewing area.
- Dark shades 8-12.
- For 3M[™] Welding Helmet 10V and 10QR, more information on page 39.



All our auto-darkening welding filters conform to ANSI Z87 (American National Standard for Occupational and Educational Personal Eye and Face Protection Devices) as well as other national standards in Europe, Canada and Australia—to name a few. Valid standard, optical classification and shade range are marked on the welding filter. Always read and follow all User Instructions.

Do they really fit?

Making a measured evaluation of eyewear fit

Everyone's face and head are different—so how is one model of eyewear going to fit everybody? You know the problem. Ill-fitting safety glasses cause pressure and pain in some very vulnerable areas: your temples, your ears... even the bridge of your nose. Discomfort and lack of style are often major reasons for not wearing safety eyewear.

To make a meaningful, measured determination of eyewear fit and security on each of your employees, we've developed a 6-step method¹⁾.

The 3M™ Eyewear Fit System uses coverage and gap gauge tools to assess four key elements of protective eyewear fit:



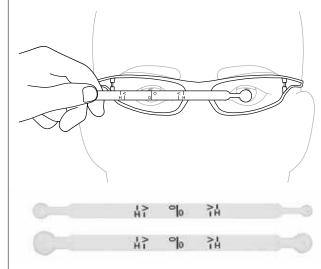
View

Assessment to ensure the wearer can see in all directions of eye rotation without major obstruction to the field of view that would interfere with the ability to perform work tasks.



Security

Assessment to ensure the eyewear stays in place on the wearer's head and does not fall off with head movement.



(2

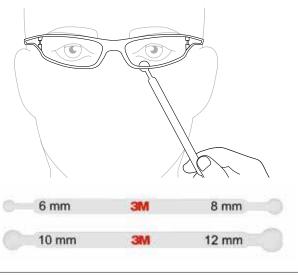
Coverage

The coverage gauge assesses how well the safety eyewear covers the soft tissue area around the eyes.

4

Gaps

The gap gauges help to identify excessive gaps between the eyewear and the face. Large gaps can provide a clear path for flying debris.

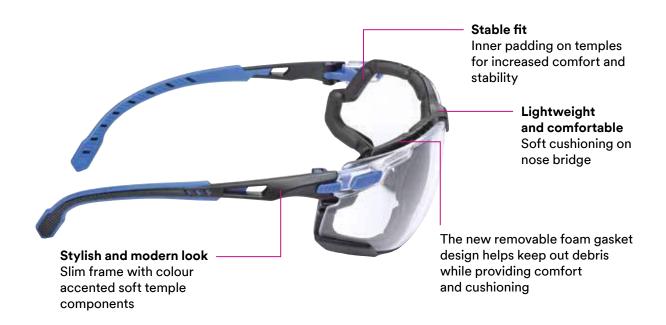


1) The full 6 step method is unique to 3M and is available free of charge (subject to terms and conditions, see website for details). Find out more by contacting your 3M Personal Safety Sales Representative or visit www.3M.com/workersafety 20

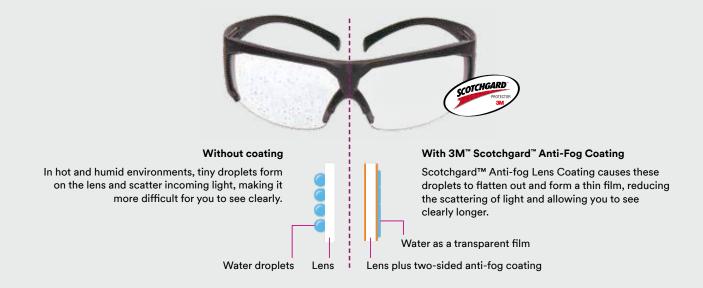
3M[™] Solus[™] 1000 Series Spectacles

A fogged lens can be frustrating and dangerous

Enjoy reliable, clearer sight longer with Scotchgard[™] Anti-Fog Coating. Now available on 3M[™] Solus[™] 1000 Series safety eyewear in a range of lens colours: clear, grey or amber. All glasses come with polycarbonate lenses, which absorb 99.9% of UV rays.



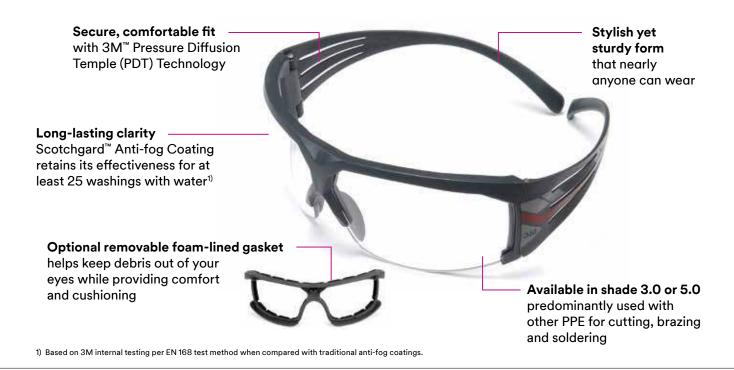
3M[™] Scotchgard[™] Anti-Fog Coating. Long-lasting clarity.



3M™ SecureFit™ 600 Series Protective Eyewear

Premium quality you can see

The quality, durability and versatility of the 3M™ SecureFit™ 600 Protective Eyewear Series bring higher performance to workplace needs, with a variety of features that include lens options such as Scotchgard™ Anti-fog Coating, lens colors, polarization and reader options.



Selected 3M[™] Protective Eyewear for Welders

| Part No | Lens Type | Coating | Description |
|--------------|---------------------------|----------------------------------|----------------------------------------------------------------------------------------------------|
| SF601SGAF | PC Clear | Scotchgard™ Anti-fog | SecureFit 600 series eyewear with clear lens. |
| SF601SGAF-FM | PC Clear with Foam Gasket | Scotchgard [™] Anti-fog | SecureFit 600 series eyewear with clear lens and removable foam-lined gasket. |
| SF617AS | PC Amber Low IR | Anti-scratch | SecureFit 600 series eyewear with amber lens. |
| SF630AS | PC Shade 3.0 | Anti-scratch | SecureFit 600 series eyewear with shade 3.0 lens. |
| SF650AS | PC Shade 5.0 | Anti-scratch | SecureFit 600 series eyewear with shade 5.0 lens. |
| SF600FI | Replacement Foam Gasket | - | For SecureFit 600 series eyewear |
| S1101SGAF | PC Clear | Scotchgard™ Anti-fog | Solus 1000 Series, blue/black eyewear with clear lens. |
| S1101SGAF-KT | PC Clear with Foam Gasket | Scotchgard [™] Anti-fog | KIT: Solus 1000 Series, blue/black eyewear with clear lens, removable foam-lined gasket and strap. |
| S1103SGAF | PC Amber | Scotchgard™ Anti-fog | Solus 1000 Series, blue/black eyewear with amber lens. |

To learn more about our complete range of protective eyewear, please use our Eyewear Selection Tool to help you make the best choice. Visit www.3M.com/workersafety

Always read and follow all User Instructions.

Your eyes, face and head

Content

| lect | or 2 - helmets sorted by welder's overall needs | 24 |
|------|----------------------------------------------------------------------------------------------------------------------------|----|
| | Premium welding helmets with/without respirator or hard hat (non-3M™ Speedglas™ Welding Helmets 9100, 9100-Air and 9100-QR | 28 |
| | Flip-up welding helmets with/without respirator: 3M™ Speedglas™ Welding Helmets 9100 FX, 9100 FX-Air | 30 |
| | Multiple levels of protection (head, eye, face, respiratory, hearing): 3M™ Speedglas™ Welding Helmet 9100 MP | 3: |
| | A legend reborn with more natural color : 3M™ Speedglas™ Welding Helmet 9002NC | 34 |
| | When your priority is super light: 3M™ Speedglas™ Welding Helmet SL | 30 |
| | Helmets in masterful graphic designs: 3M [™] Speedglas [™] Welding Helmet Series 100 and 100-QR | 38 |
| | Basic performance in robust design: 3M™ Welding Helmet 10V | 39 |
| ect | or 3 - refine your selection by helmet benefits | 42 |
| ect | or 4 - helmets for powered and supplied air systems | 4: |

There is no one perfect welding helmet

We have populated our helmet matrix with carefully considered design blends of protection, features, personal preferences, and performance to address many common application needs.

But for every helmet system we design, we have four driving factors:



Reliability

We know harsh welding environments: We build our products to thrive in them. From creating reliable arc sensing/ shade switching to selecting highly durable materials to designing for long-lasting mechanical operation.

Comfort

Comfort means a helmet that vents exhaled air. It means a headband that avoids scientifically determined pressure points around your head. And how a helmet provides eye and face protection while being comfortable for a full shift.





Protection

UV/IR radiation.
High speed grinding particles. Falling objects. Respiratory hazards. List your workplace hazards—then find the right Speedglas helmet, accessories, and respiratory protection. Have a unique workplace hazard? Contact your local distributor for even more 3M solutions.

View

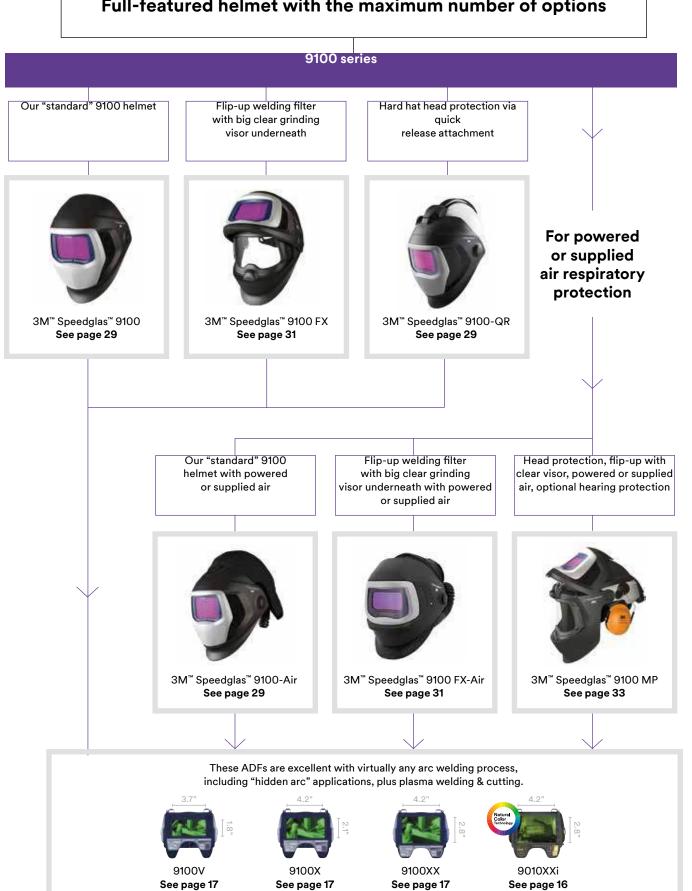
Every helmet design detail can affect your view. That's why we provide high-performance autodarkening welding filters, our side windows lenses, and large, protective clear visors. Each of these, and many more, helmet design elements maximize your ability to see.

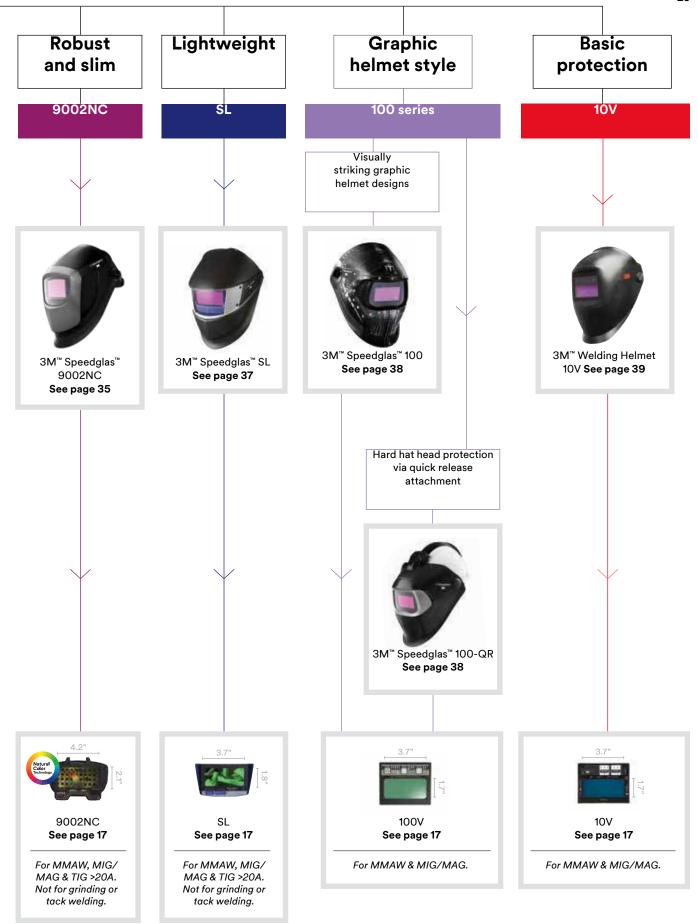


Need Help Finding the Right Speedglas Product? www.3m.com/3M/en_US/speedglas-welding-helmets-us/speedglas-education/choosing-welding-safety-equipment/

What do you need?

Full-featured helmet with the maximum number of options





26 27

When you need coverage, control, and comfort:

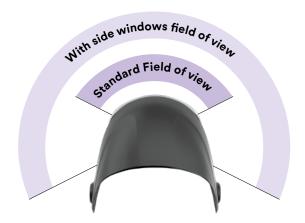
3M[™] Speedglas[™] Welding Helmet Series 9100



High-performing people need high-performing products

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 distributor for a hands-on demonstration.



Peripherial vision

The first time a welder puts on a Speedglas welding helmet with side windows you can see his startled reaction. Previously hidden peripherial hazards (beams, obstacles, other workers) are now easier to see through the two, shade 5 side filters.

Tailor to fit your personal preferences

With the 9100 headband, we've carefully avoided sensitive areas of the head while designing self-adjusting twin pads for the forehead band. By better contouring it around your head, our headband doesn't need to be overly tight to be comfortably secure.

Ergonomic fit

Adjust the shield's distance to your face. Fits head sizes S-M-L, 6.25" to 8" (50-64 cm) approx.

Stability

Ratchet for precise tightening.

Adapt to your position

Adjust the helmet tiltangle while wearing the helmet on your head.

Less pressure

Self-adjusting "twin pads" contour to your head.

Low riding comfort

Adjust the helmet's parking position (left side) and friction (right side). Further details below.

We designed the 9100 helmet to "nest" down low, close to the headband, when raised. So you don't need to tighten the headband as much.

The helmet's smooth up-and-down pivot action can be locked in the up position—a light pull lowers the helmet back down again.

DROPS AS YOU LIKE

Drop-friction is adjusted on the wearer's right hand side:

Turn the right-hand knob clockwise to increase (or counterclockwise to decrease) the effort needed to nod down the shield.



STABILITY WHEN RAISED

Helmet parking grip is adjusted on the wearers left hand side:

Turn the left-hand knob clockwise to increase (or counterclockwise to decrease) how tightly the shield is held in the raised "parked" position.

Always read and follow all User Instructions.



3M[™] Speedglas[™] Welding Helmets 9100, 9100-Air and 9100-QR

High-performance and comfort





- 1) Only in combination with 3M[™] Speedglas[™] Welding Filter 9100XXi.
- Hard hat adaptor available, (Part No 06-0014-00NR).





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

All of these benefits can be used with powered or supplied air respiratory protection in combination with the Speedglas welding helmet 9100-Air.

If your work situation requires head protection, test out our Speedglas welding helmet 9100-QR. It quickly attaches to many of the industry's most popular hard hats, including the 3M™ Hard hat H-701.

3M[™] Speedglas[™] Welding Helmets 9100 FX and 9100 FX-Air

Flip up to wider views





- 1) Only in combination with 3M[™] Speedglas™ Welding Filter 9100XXi.
- 2) Hard hat adaptor available (Part No 06-0614-00NR).









Wider field of view with flip-up front—a combination welding helmet and protective visor.

A quick lift of the front and you get a big, (approx. 8"x 4.25") clear view—excellent for precision grinding in low-light conditions.

And if you use the 9100 FX-Air model, the clear view from the curved visor lets you keep your respiratory protection in place at all times.

3M[™] Speedglas[™] Welding Helmet 9100MP

Multiple levels of protection



| Features | 9100 MP |
|-------------------------------|-------------|
| Approval ANSI Z87.1 - 2010 | ✓ |
| Side windows | > |
| Auto-ON | ✓ 10 |
| Exhaust vents | |
| Flip-up | ✓ |
| Graphics option | |
| Hard hat | ~ |
| Natural Color Technology | ✓ 1) |
| Powered Air APF 25 | ✓ |
| Supplied Air APF 25 | ✓ |

 Only in combination with 3M™ Speedglas™ Welding Filter 9100XXi.



Have you tried multi-protection systems where some component seemed to clash with the other components?

That's why we built our 3M™ Speedglas™ Systems 9100 MP (multi-protection) just for welders.

You can now work in a highly integrated, comfortable, protective envelope, with big, wide views as you weld, prep and grind.

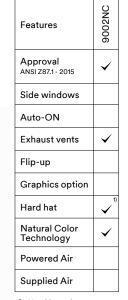
3M™ Speedglas™ Welding Helmet 9002NC

A legend reborn

You asked, and we listened. For over 20 years, the 3M™ Speedglas™ Welding Helmet 9000 set the standard for rugged, dependable protection. Now we've incorporated the best features—giving a new generation of welders excellent performance at a price that won't break the bank.

This helmet incorporates 3M Speedglas' newest natural color technology. Advanced autodarkening optics are easily adjusted to meet your working conditions for a lighter, brighter and more detailed view of your welds. And a lighter weight, slim profile means less constriction in tight spaces.





 Hard hat adaptor available (Part No 07-0014-00NR).



Freedom of movement

Shield width



The slim profile offers increased freedom of movement in tight places.

Coverage





Pick your preference

The 9002NC helmet (left) is slimmer and not as deep as a 9100 helmet (right), making it more maneuverable and lighter in weight. On the other hand, the deeper and wider 9100 series covers more of your ears, neck, and sides of your head.

Features

Approval ANSI Z87-2003

Side windows Auto-ON

Exhaust vents

Graphics option

Flip-up

Hard hat

Natural Color Technology

Powered Air Supplied Air



3M™ Speedglas™ Welding Helmet SL

Light, narrow and fast



Did you know that some lightweight welding helmets can actually absorb moisture and become heavier over time? We took care to avoid that problem by making our SL (super light) helmet from strong, nonabsorbent materials (also applicable for the 9100 series helmets).

We also designed a special auto-darkening filter to make both the ADF and the helmet weight a mere 13 oz—25% lighter than any other Speedglas model.

3M[™] Speedglas[™] Welding Helmet Series 100 and 100-QR

Weld with personality



| Features | 100 | 100-QR |
|-----------------------------|-------------|----------|
| Approval ANSI Z87-2003 | ✓ | ✓ |
| Side windows | | |
| Auto-ON | | |
| Exhaust vents | | |
| Flip-up | | |
| Graphics option | ✓ | |
| Hard hat | ✓ 1) | ~ |
| Natural Color Technology | | |
| Powered Air | | |
| Supplied Air | | |

Hard hat adaptor available (Part No 07-0014-00NR).

Get your career off to a great start with high-performance eye and face protection!

Now with a new option for head protection—the 3M™ Speedglas™ Welding Helmet 100-QR (quick release).

100-QR with hard hat 3M™ Welding Helmet 10V

Basic functions in a robust design



Features

Approval
ANSI 287.1-2010

Side windows
Auto-ON
Exhaust vents
Flip-up
Graphics option
Hard hat

Natural Color
Technology
Powered Air
Supplied Air

1) Hard hat adaptor available (Part No 07-0014-00NR).

Designed for all-round MIG/MAG and MMAW (electrode or "stick") welding, with user selectable dark shades of 10, 11 or 12.

Want to stand out?

Make an impactful statement with one of our powerful, distinctive graphic designs. Find them all on page 76.

Variable shades for flexibility

Five adjustable dark shades 8–12. And three sensitivity settings for customized light-to-dark switching, lock-in shade 3 light state.



Confident protection

Robust, industrial helmet design.
Complies to the standard
ANSI Z87.1 - 2010.

Performance made affordable

Auto-darkening filter performance at a price that won't break the bank.



40 41

We got you covered

Every welder is different, and each day your tasks can change. As the owner of a 3M™ Speedglas™ Welding Helmet, you have a variety of accessories available to help you maximize your protection and comfort.

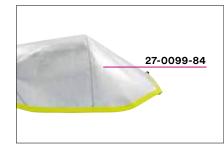
Plus, we now offer a new generation of additional coverage products made in flame-retardant textiles for protection against molten metal, sparks and flames.













Quick guide to help extend your protection

| 3M [™] Speedglas [™] Welding Helmet | 9002NC | 100 | SL | 9100 + 9100-Air | 9100FX + 9100 FX-Air | 9100-QR 100-QR 10V | 9100 MP |
|----------------------------------------------------------|----------------------|----------------------|-------------------------|------------------------------------------|-------------------------|--------------------------|--------------------------|
| Head protection (Part No) | 16-0099-30 | | 06-0500-51 | 06-0700-82 (large) 06-0700-81 (small) | | 27-0099-84 | |
| Material | Cotton / Para-aramid | | Cotton / Para-aramid | | | Reflective | |
| Neck protection (Part No) | 0 | 02-0690-001) | | 06 | 06-0500-52 | | 27-0099-85 27-0099-87 |
| Material | Cotto | on / Para-ara | amid | Cotton | / Para-aramid | Leather | Cotton/ Para-aramid |
| Hood (Part No) | | | 06 | i-0700-83 | | _ | _ |
| Material | | Cotton / Para-aramid | | | | | - |
| Breathing tube cover (Part No) | | - | | SG-15 | | _ | SG-15 |
| Material | | - | | Flame-retardant | | _ | Flame-retardant |

1) Alternative neck protection available in leather (part no 18-0099-68).

Time to upgrade your visibility?



Getting too close to your arc?

Start with the easiest solution first: replace your filter's outer protection plates more frequently!

If you still can't see the detail you need, try one of our magnifying lenses. They come in x1.5, x2.0, x2.5, and x3.0 strengths. For details, see the Accessories and Spare Parts section for each helmet.



Consumables to get you started

Starter kit of sweatband, inner and outer protection plates to your 3M[™] Speedglas[™] Welding Helmet Series 9100. For ordering information, see parts list section for each helmet type.

| System | Component | Typically replaced | Notes |
|------------------------------------|------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Welding filters | Outer protection plate | Once a week | Replace anytime the plate becomes deeply pitted, scratched or too dirty to clean with soft cloth or lens paper |
| Welding filters | Inner cover plate | Once a month | Regularly clean with a soft cloth and replace if any pits or scratches occur. |
| Welding helmets | Visor plate | Every two weeks | Replace more often if visibility is reduced. |
| Welding helmets | Sweatband | Once a month | Replace more often if sweatband becomes unhygienic. |
| Welding helmets with respirator | Face seal | At least every 2 months | Replace earlier in dirty environments or whenever the seal becomes unhygienic. |
| Welding helmets with respirator | Breathing tube | If damaged, deformed or leaking any air | To extend the life of breathing tube, use a tube cover or a heavy-duty rubber breathing tube. |

Important information. Note that higherthan-normal levels of pollutants, heat, and sparks will require more frequent replacements of components. Chart assumes minimum 4 hours usage per day. Ordering information for each series of welding helmet can be found in the Parts Directory, page 66.

Information summary for quick reference only; always read and follow User Instructions.



Learn more about product maintenance from Speedglas YouTube channel! Scan the QR code or visit youtube.com/3MSpeedglas



42 | Selector 3 Selector 4 | 43

Refine your helmet selection based on your preferences















| Specification 3M Welding helmets (non-air) | Speedglas 9100 | Speedglas 9100-QR | Speedglas 9100 FX | Speedglas 9002NC | Speedglas SL | Speedglas 100 | Speedglas 100-QR | 3M 10V |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|---------------------|---------------------|---------------------|--------------------------------|---------------------|
| Eye and Face Protection (Approval) Welding helmet, welding filter and protection plates | A | ANSI Z87.1-20 | 10 | ANSI Z87.1 -2015 | ANSI Z87.1 -2003 | ANSI Z87.1 -2010 | ANSI Z87.1 -2010 | ANSI Z87.1 -2010 |
| Head protection (Approval) ANSI Z89.1-2009 Type 1 | | Class C, G, E ²⁾ | | | | | Class C, G, E ²⁾ | |
| Respiratory protection ¹⁾ | All helmets are compatible with 3M disposable or resusable respirators; see page 54-57. See next page for helmets available with powered and supplied air respiratory protection. | | | | | | | |
| Hearing protection—optional (see page 63) | Earmuffs Earplugs | Earmuffs Earplugs | Earmuffs Earplugs | Earplugs | Earplugs | Earplugs | Earplugs | Earplugs |
| 1 Exhaust vents | YES | YES | YES | YES | - | - | - | - |
| 2 Side windows | Optional | YES | YES | _ | - | - | - | _ |
| 3 High-comfort headband 9100 | YES | - | YES | YES | YES | YES | - | - |
| 4 Flip-up with clear visor | _ | _ | YES | _ | - | - | - | _ |
| Graphics option | - | - | - | - | - | YES | - | - |
| Auto-darkening filter options (see page 16-17) | 9100V, 9100X, 9100XX, 9100XXi | 9100V, 9100X, 9100XX, 9100XXi | 9100V, 9100X, 9100XX, 9100XXi | 9002NC | SL | 100-V | 100-V | 10V |

1) This overview shows only our helmets without air delivery connection. Helmets for powered or supplied air respirator systems see page 43. 2) With 3M™ Hard hat H-701.



1 Exahaust vents exhaled air is channeled out via side vents.



2 Side windows shade 5 filters that widen your field of vision.



3 High-comfort Speedglas headband 9100 with smooth ratchet for precise tightening.



4 Big, curved (approx. 8"x 4.25") clear protective visor, increasing your peripherial vision.









| Specification 3M Welding helmet systems (air) | Speedglas 9100 FX-Air | Speedglas 9100-Air | Speedglas 9100 MP | Speedglas L-705SG/ L-905SG |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|------------------------------------|-------------------------------------|
| Eye and Face Protection (Approval) Welding helmet, welding filter and protection plates | ANSI Z87.1-2010 | ANSI Z87.1-2010 | ANSI Z87.1-2010 | ANSI Z87.1-2003 |
| Head protection (Approval) | - | - | ANSI Z89.1-2009 Type 1, Class G | ANSI Z89.1-2003 Type II, Class G |
| Respiratory protection (Approval) ³⁾ Adflo Powered Air Respirator Fresh-air III Supplied Air Regulator | APF 25 APF 25 | APF 25 APF 25 | APF 25 APF 25 | APF 25 APF 1000 ³⁾ |
| Hearing protection—optional (see page 63) | Earmuffs Earplugs | Earmuffs Earplugs | Earmuffs Earplugs | Earmuffs Earplugs |
| 2 Side windows | YES | YES | YES | NO |
| 3 High-comfort headband 9100 | YES | YES | - | - |
| 4 Flip-up with clear visor | YES | - | YES | YES |
| Auto-darkening filter options (see page 16-17) | 9100V, 9100X, 9100XX, 9100XXi | 9100V, 9100X, 9100XX, 9100XXi | 9100V, 9100X, 9100XX, 9100XXi | 9100V, 9100X, 9100XX, 9100XXi |

3) APF 1000 = L-905SG when used in conjunction with Adflo, TR-300, TR-600, GVP, and Supplied Air.







| Specification 3M™ Faceshields and Helmets (air) | Versaflo M-207 | Versaflo M-307 | Versaflo M-407 |
|-----------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------|--------------------------------------------------|
| Eye and Face Protection (Approval) Visor plate | ANSI Z87.1-2010 | ANSI Z87.1-2010 | ANSI Z87.1-2010 |
| Head protection (Approval) | Bumpcap | ANSI Z89.1-2009 Type 1 Class G | ANSI Z89.1-2009 Type 1 Class G |
| Respiratory protection (Approval) Adflo Powered Air Respirator Fresh-air III Supplied Air Regulator | APF 25 APF 25 | APF 25 APF 25 | APF 1000 ⁴⁾ APF 1000 ⁴⁾ |
| Hearing protection—optional (see page 63) | Earmuffs Earplugs | Earmuffs Earplugs | Earmuffs Earplugs |
| Flame-retardant shroud | YES | YES | YES |
| Type of protective visor | Clear-coated polycarbonate | Clear-coated polycarbonate | Clear-coated polycarbonate |

4) APF 1000 = M-407 when used in conjunction with Adflo, TR-300, TR-600, GVP, and Supplied Air. See 3M Technical Data Bulletin 175 for more details.

Always read and follow all User Instructions.

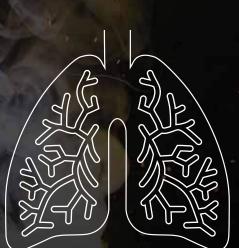
Your respiratory system

Content

| Welding fume hazards | 45 |
|------------------------------------------------------------------------------|----|
| Reducing welding fumes & exposure | 46 |
| General guide to respiratory protection for welders | 47 |
| 3M [™] Adflo [™] Powered Air Respirators | 48 |
| 3M [™] Speedglas [™] Fresh-air III Supplied Air Regulators | 52 |
| 3M [™] Reusable Respirators | 54 |
| 3M [™] Disposable Welding Respirators | 56 |

Health effects of welding fumes The respiratory hazards of metalworking are real. Welding fumes swirling around in your work environment can

The respiratory hazards of metalworking are real. Welding fumes swirling around in your work environment can potentially result in health-related issues. Some exposure limits for welding fumes are set by regulations, and others are advisory. These limits aren't always the same.



When good enough isn't enough...

To help reduce the risk of adverse health effects caused by exposures to airborne materials such as manganese, the United States Occupational Safety and Health Administration (OSHA) has established permissible exposure limits (PELs) which are law. In addition, the American Conference of Governmental Industrial Hygienists (ACGIH) sets threshold limit values (TLVs) which are airborne exposure limit guidelines.

PEL 5.0 mg/m³

Current Federal OSHA PEL for manganese compounds, including manganese fume, is 5 milligram per cubic meter of air.¹⁾



TLV 0.02 mg/m³
Since 2013 ACGIH Threshold Limit

Value for Manganese exposure is 0.02 milligram per cubic meter of air.¹⁾

This is a graphical illustration constructed by 3M for the estimated annual dose. The illustration is based on certain important assumptions. Learn more at: 3M.com/respmanganese.

Always read and follow all User Instructions.

46 47

Reducing welding fumes & exposure

Welding creates a mixture of respirable gases and/ or fumes (particles). To address these hazards and risks, it is best practice to use a hierarchy of controls. The idea is that the highest priority items on the hierarchy not only do the most to reduce fumes and worker exposure, but that they also put the least burden of responsibility on the welder. However, every welding fume control has its limitations; here are some examples:

1

Modify or substitute your welding process to other processes that generate less fumes and/or reduce exposure to airborne contaminants.

Control Limitations:
Substitutions may
not be possible.
For example, when
the end-product

requires stainless steel

(chromium).

2

Engineering controls include actions such as modifying enclosures around the welder, or the general ventilation of the workshop, or local exhaust controls.

Control Limitations: Ventilation can be difficult to achieve due to conflicting needs, for instance heating/ cooling or shielding gases. 3

Work practices include having the welder keep their head out of the plume.

Control Limitations: Space-restricted workpieces or the welding situation may not allow alternative placement of the welder's head. 4

Personal respiratory protection. If steps 1 through 3 do not eliminate the respiratory hazards, respiratory protection for the welder can provide protection and comfort.

Control Limitations:
Companies must
establish a respiratory
protection program in
accordance with 29 CFR
1910.134 that includes
selection of respirators
and their filters, training

and maintenance.

Inadequate respiratory protection is the 4th most frequently cited workplace violation.¹⁾ 1) Top 10 Most Frequently Cited Standards, OSHA, U.S. Department of Labor, for 2015. Always read and follow all User Instructions.

Which style of respirator best suits you?

The following is an overview of the four general types of 3M respiratory protection found in this catalog. In addition to your application's specific filtration requirements, your selection process

may include factors such as equipment style/configuration, personal preference/comfort, and maintenance considerations.









APF = Assigned Protection Factor.

Always read and follow all User Instructions

3M™ Adflo™ Powered Air Respirator

- APF¹) of up to 1000 based on headtop configuration.
- Can be used specifically for particle filtration (only), or for the filtration of both particulates and gases, depending on filter selection.
- Four welding helmet and three protective visor configurations to pick from.
- Provides a constant nominal airflow rate of 205 lpm.
- The respirator's slim turbo design allows highly mobile use.

3M[™] Speedglas[™] Fresh-air III Supplied Air Regulators

- APF¹⁾ of up to 1000 based on headtop configuration.
- Can be used to protect against substances including particle or gas/vapor.
- Four welding helmet and three protective visor configurations to pick from.
- Belt-mounted regulator with user control over airflow: from 170 lpm to 424 lpm.
- Requires Grade D breathable air, filter and regulator panel, and approved 3M supplied air hoses.

3M™ Reusable Respirators

- APF¹⁾ for half facepiece reusable respirators is 10.
- Helps provide respiratory protection against a variety of gases, vapors, and particulate hazards when used with 3M cartridges and filters according to NIOSH approvals.
- Available resilient silicone faceseal styles provide comfort, durability, and stability
- Low profile designs enable fit under all 3M[™] Speedglas[™] Welding Helmet Series 9100.

3M™ Disposable Welding Respirators

- APF¹) 10.
- Lightweight and comfortable.
- No maintenance—disposable.
- Fits under virtually any welding helmet.
- Adjustable noseclips to help provide a custom seal.



Move around

The slim profile of the turbo design makes it easier to go into tight spaces. The robust 3M™ Adflo™ Powered Air Respirator provides all of the features you would expect in a premium system, including easy-to-use functionality.

Go higher

At higher altitudes, air is less dense. To compensate, we offer the 3M™ Adflo™ High Altitude Powered Air



Suitable for up to approx. 10,000 ft (3000 meters) above sea level and up to approx. 5,000 ft (1500 meters) when using the OV/AG cartridge.



3M™ Adflo™ Powered Air Respirator

Your own filtered atmosphere... ...mobile and adaptable



Is there a way to both increase your respiratory protection against harmful welding fumes while increasing the comfort around your face and head? Tackle workplace hazards with a respiratory protection solution workers will want to wear.

As one of the most popular respirators of its kind in the world, the 3M™ Adflo™ Powered Air Respirator is designed to provide welders a constant nominal airflow rate of 205 liters per minute, regardless of the battery's charge or the particle loading of the filter.

Green for go

As soon as you turn on your Adflo powered air respirator, a display indicates the status of the filter. Green light means that the unit is working normally. Red light indicates that the filter is clogging up.

1. Particulate filter is new

2. Three green indicator lights come on as the filter begins to clog



one red light: expect a shorter battery runtime. Particulate filter

3. Three green and

replacement is recommended.



4. Three green and two red lights: the particulate filter is clogged and must be replaced.

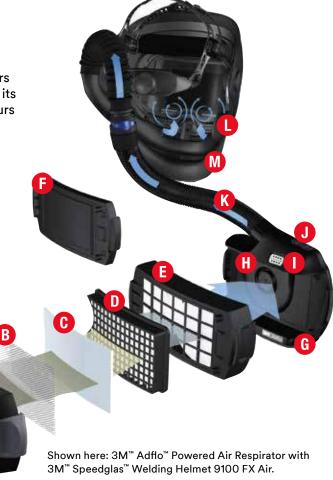


50

An adaptable system

With the right type of filter, the Adflo respirator helps reduce your exposure against both particles and gases—all in one system. And you can selectively replace either the particle or the OV/AG cartridge as needed: you don't need to change both filters at the same time.

- A Filter cover: holds the different available Adflo filters.
- B Spark arrestor.
- **C** Prefilter: increases the service life of the particulate filter.
- **D HE particulate filter:** high efficiency particulate filtration.
- **E OV/AG cartridge:** filters certain organic vapors and acid gases; sold separately.
- **F** Odor filter: removes unpleasant smells (not needed if a OV/AG cartridge is installed); sold separately.
- **G** Li-ion battery: charges to 80% capacity in approx. 3 hours and to 100% capacity in approx. 6.5 hours, depending on its residual charge. Approximate operating time up to 12 hours with a new particle filter and new, fully charged battery.
- H Brushless motor: with an average life three times longer than conventional motors.
- I **Filter indicator:** indicates the status of the HE particulate filter.
- J Airflow: Provides a constant nominal airflow rate of 205 lpm.
- K Breathing tube: different options available.
- L Airflow: for your maximum comfort, a diffuser evenly distributes filtered air throughout the entire breathing zone of the helmet. Plus, the intelligent turbo unit keeps the airflow rate at a constant, preset level.
- M Soft, flexible face seal (removed here for clarity): creates a positive pressure environment within the helmet, keeping the surrounding pollutants at bay.



Increase your comfort





For additional back support, you might like to try the backpack BPK-01 when using the Adflo respirator.

For maximum safety and performance, make it a regular habit to check and change the following items at the intervals recommended below.

| Adflo component | Typically replaced ¹⁾ | Notes |
|-----------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Prefilter | Once a week | Regular replacement of the prefilter extends the life of the HE particulate filter, saving money while also increasing the battery run-time. |
| HE particulate filter | At least every month | Do daily checks with air flow indicator and replace when airflow indicator falls below the minimum flow line. |
| OV/AG cartridge | According to regulations at your work place | Smell and taste is not recommended as a measure of change. |
| Odor filter | Any time you smell unpleasant odours | Note: odor filter is not required if a OV/AG cartridge is used. |
| Spark arrestor | As needed | Replace if deformed and no longer fitting well. |

1) Important information. Note that higher-than-normal levels of pollutants, heat, and sparks will require more frequent replacement of components. Chart assumes minimum 4 hours usage per day. Ordering information for each series of welding helmet can be found in the Parts Directory page 66.

3M[™] Speedglas[™] Fresh-air III **Supplied Air Regulators**

Light on your belt and maximum airflow



V-200 Air Heating





Temperature

to regulate the airflow from a supplied air source. A cost-effective way to provide a high level of respiratory protection - no filters, cartridges, or batteries to maintain. They can operate on pressures ranging from 60-90 psig, depending on hose length.

The lightweight, belt-mounted regulator allows you

Two alternative regulators to either cool (V-100) or heat (V-200) the airflow entering the headgear by as much as 50°F (28°C). These regulators are excellent choices for workers exposed to uncomfortable temperature ranges.



Convenient Quick Latch Drop-Down Mechanism

- Easy on and off as you move in and out of contaminated areas.
- No need to remove hard hats or faceshields when lowering and raising the respirator.









Quick Latch closed

Pull up on latch

ch Quick Latch open

_atch open Pull down on latch

To open Quick Latch: Grasp the latch at chin level and pull up. **To close Quick Latch:** Grasp the facepiece with your thumb on the bottom of the facepiece and your first two fingers on top of the latch. Place the facepiece over your nose and mouth while pushing down on the latch.

3M[™] Rugged Comfort Half Facepiece Reusable Respirators and Filters

An easy choice for a tough world

When shifts are long and conditions are challenging, your workers will appreciate the 3M™ Rugged Comfort Half Facepiece Reusable Respirator 6500 Series. With 3M's Quick Latch drop-down mechanism and Cool Flow™ Valve, respirators are easy-on and easy-off for comfortable protection.



- Our lightest silicone facepiece keeps it shape, even in high-heat environments.
- Low-profile, wide field-of-view design.
- Easy on and off with our convenient Quick Latch (QL) Drop-Down Mechanism.
- Easier breathing with 3M[™] CoolFlow[™] Exhalation Valve.
- Adjustable head harness assembly.
- Compatible with all 3M bayonet-style cartridges and filters.

| 3M™ Reusable R | espirators | Model (Size) | Description | Assigned Protection Factor |
|----------------------|------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 6500 Facepieces | | 6501 (S) 6502 (M) 6503 (L) | 3M™ Rugged Comfort Half Facepiece Reusable Respirator. | APF 10 |
| 6500QL Facepieces | | 6501QL (S) 6502QL (M) 6503QL (L) | 3M [™] Rugged Comfort Quick Latch Half Facepiece Reusable Respirator | APF 10 |
| 2297 Filters | 1902 P | 22971) | 3M [™] Advanced Particulate Filter 2297, P100 Respiratory Protection, with Nuisance Level Organic Vapor Relief ¹⁾ | |

^{1) 3}M recommended for ozone protection up to 10x OSHA PEL (not NIOSH approved for ozone). Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.

Since everyone's head size and shape is different, we recommend that you work with your 3M[™] distributor to find the respirator models that are most compatible with your welding helmet(s). The filter option reference is for particle filtration. 3M reusable respirators can be combined with many other types of filters and cartridges for protection against particulates, vapors and/or gases. Please visit www.3M.com to find other options.



3M™ Disposable Filtering Facepiece Respirators

Light, convenient and comfortable protection



Looking for lightweight, effective and comfortable respiratory protection against dusts, mists, and metal fumes?

Respirators can't give workers full protection unless they are selected and worn correctly during all exposure times. That's why 3M™ Disposable Filtering Facepiece Respirators include features and technology that enhance user comfort and can help increase wear times.

Incorporates layers, designed to be flame resistant as demonstrated per ASTM D2859-96. (Not a substitute for a faceshield.)

| 3M™ Disposable Filtering Facepi | ece Respirator | Model | Description | Assigned Protection Factor |
|---------------------------------|----------------|-------|-----------------------------------------------------------------------------------------------------|----------------------------|
| N95 Respirator | | 8515 | Particulate welding respirator. | APF 10 |
| N95 Respirator | A. I. | 8212 | Particulate welding respirator with faceseal. | APF 10 |
| N95 Respirator | | 8214 | Particulate welding respirator with faceseal and nuisance level organic vapor relief. ¹⁾ | APF 10 |

^{1) 3}M recommended for ozone protection up to 10x OSHA PEL (not NIOSH approved for ozone). Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.

Your ears

Content

| The challenge of hearing protection for welders | 59 |
|-------------------------------------------------------------------|----|
| Strategies for moving towards 100% usage | 60 |
| 3M™ PELTOR™ Level Dependent Earplug LEP-100 | 6 |
| Earmuffs that attach to hard hats | 6 |
| Selector 5 - hearing protection for welders (earmuffs & earplugs) | 6: |

The challenge of hearing protection for welders



Gives the expected protection.



Reduces protection.



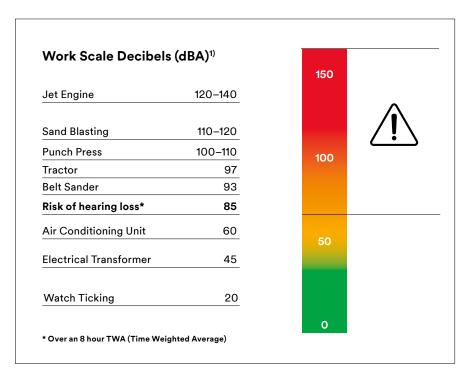
Significantly reduces protection.

Minutes of carelessness per day significantly reduces the effect of hearing protection

That's right: if you're in a harmfully loud workplace—at or above 85 decibels—then not having your hearing protection in place just 10% of the time offers you significantly less protection. Noise-induced hearing loss (NIHL) is caused by the damage and eventual death of the the sensory cells in you ears, called 'hair cells'. Unlike some other cells, human ear hair cells never grow back.¹⁾

Too loud may be less loud than you think

Think of all of the noises that surround you at your welding shop. Your tools, of course. But also the sudden, short, yet very loud noises: metal falling onto metal or hammers banging metal into place. Those sudden noisy spikes, at or above 85 decibels, could be damaging your hearing unless your hearing protection is always in place.



Moving towards 100% usage

Select hearing protection that your workers want to wear

This is an important step in moving towards 100% usage. But, 100% usage isn't the only answer. You need it if you're exposed above 85dB, but wearing protection below that or wearing more protection than is needed, could have an impact on your ability to hear surrounding sounds.

Create a Hearing Conservation Program

Employers who have workers in areas with 8 hour TWA noise exposures of 85 dBA and higher must provide an OSHA Hearing Conservation Program that includes:

- 1. Noise monitoring
- 2. Engineering and administrative controls
- 3. Annual hearing testing
- 4. Providing hearing protectors
- 5. Annual training
- 6. Record keeping
- 7. Evaluate program effectiveness

The following pages offer Hearing Protection Equipment (HPE) options to consider for your needs and preferences.

To learn more, visit 3M Center for Hearing Conservation: www.3m.com/chc.

OSHA Regulations 37.5 Million **OSHA** OSHA's permissible exposure limit is 90 **Americans Experience** Limits decibels (dBA)—time-weighted average Hearing Loss.¹⁾ (TWA) over eight hours—for workers with no previous work-related hearing loss. **OSHA** According to OSHA, workers exposed Requirements above 90 dB(A) 8 hour time weighted **#1 Reported** average must wear hearing protection. **Manufacturing** Repeated exposure to loud sounds, greater than 85 dBA, can cause permanent hearing loss and tinnitus. Health Issue.²⁾ Other health effects related to noise can include stress, anxiety, hypertension, sleep disturbance and fatigue.

1) According to the National Institutes of Health, 37.5 million (15%) Americans age 18 and older report some degree of hearing loss, and it is estimated that 26 million Americans between the ages of 20 and 69 have a hearing loss due to noise exposure.

2) The Bureau of Labor Statistics (BLS) has reported that for people working in the Manufacturing Sector, occupational hearing loss is the most commonly recorded occupational health issue. Since 2004, nearly 258,500 workers have suffered significant, permanent hearing loss.

3M™ PELTOR™ Level Dependent Earplug LEP-100

Stay aware and communicate

How can you protect your hearing but still communicate in workplaces with loud noises? The 3M™ PELTOR™ LEP-100 amplifies weak sounds (like voices) when noise levels are low while attenuating loud noises while attenuating loud noises—even sudden loud noises.

Added convenience

Replaceable eartips are available in small, medium, and large sizes and two different designs to accommodate most user's ear canals:

- UltraFit[™] Eartips, NRR of 25 dB¹⁾
- Skull screw tips 32 dB¹⁾

Rain or wind

Water resistant microphone port also helps minimize wind noise.

Easy operation

Intuitive one-button operation turns the unit on and off, and selects volume settings.

Long usage time

The rechargeable Li-ion battery provides up to 16 hours of continuous operation.

1) 3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to variation in hearing protector fit, fitting skill and motivation of the user. If the NRR is used to estimate typical workplace protection, 3M recommends that the NRR be reduced by 50% or in accordance with applicable regulations.





62 Selector 5 | 63



3M™ PELTOR™ **Earmuffs X-Series**

No compromises

Ear cups have a streamlined design that doesn't



Comfortable

Lightweight dual molded cups. 3M strongly recommends fit testing of hearing protectors

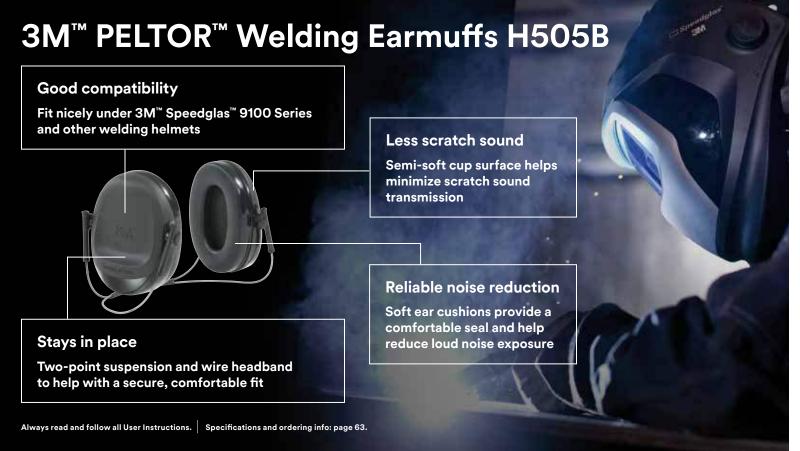
Specifications and ordering info: page 63.

Stylish and reliable

Helmet mounted

Integrated design

New ear cushion foam technology for an effective acoustic seal and reliable protection



Hearing protection for welders

A selection of 3M™ Earmuffs and Earplugs¹⁾



















| 3M [™] PELTOR [™] Earmuffs and Level Dependent Earplug | H505B | M-985 Earmuffs | X1 Earmuffs | X1 Earmuffs | X2 Earmuffs | X3 Earmuffs | X4 Earmuffs | X5 Earmuffs | LEP-100 |
|-----------------------------------------------------------------------------|----------|-------------------|----------------|-------------------|-------------------|-------------------|--------------------------------------------|-------------------|-------------------------------|
| Design | Neckband | Helmet mounted | Neckband | Helmet mounted | Helmet mounted | Helmet mounted | Slim, fluorescent, helmet mounted | Helmet mounted | Level dependent earplug |
| NNR ²⁾ | 17dB | 24dB | 21dB | 21dB | 24dB | 25dB | 25dB | 31dB | 25dB / 32dB |
| Part No | H505B | M-985 | X1B | X1P5E | X2P5E | X3P5E | X4P5E | X5P5E | LEP-100 |
| With 3M™ Welding Helmet | | | | | | | | | |
| Speedglas 9100 | • | | • | | | | | | • |
| Speedglas 9100 Air | • | | • | | | | | | • |
| Speedglas 9100-QR | | | | • | • | • | • | • | • |
| Speedglas 9100 FX | • | | • | | | | | | • |
| Speedglas 9100 FX-Air | | | | | | | | | • |
| Speedglas 9100 MP | | • | | | | | | | • |
| Speedglas 9002NC | • | | • | | | | | | • |
| Speedglas 100 | • | | • | | | | | | • |
| Speedglas 100-QR | | | | | | | | | • |
| 3M 10V | | | | | | | | | • |
| Versaflo M-series | | • | | | | | | | • |

1) 3M strongly recommends fit testing of hearing protectors. These recommendations are general and are based on usage with 3M™ Welding Helmets. Your personal preferences may result in different selections: for additional product information and technical specifications, please visit www.3m.com/hearing















| 3M™ Earplug³) | E-A-R [™] Classic [™] | E-A-Rsoft [™] Yellow Neons [™] | E-A-Rflex [™] | E-A-R™ Ultrafit | E-A-R™ Ultrafit 27™ | E-A-R™ Skull Skrews™ |
|---------------|------------------------------------------------|-----------------------------------------------------|---------------------------------|-------------------------------|----------------------------------|-------------------------|
| Design | Classic earplugs with proprietary foams. | Slowly expanding, polyurethane foam material. | Banded, wear Behind-the-Head | Reusable, premolded earplugs. | Resusable, premolded earplugs | Push-To-Fit Earplugs |
| NNR 2) | 29dB | 33dB | 28 dB | 25dB | 27dB | 32dB |
| Part No | 310-1001 | 311-1250 | 320-1000 | 340-4004 | 340-8002 | P1301 |

- 2) 3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to variation in earmuff fit, earmuff fitting skill and motivation of the user. If the NRR is used to estimate typical workplace protection, 3M recommends that the NRR be reduced by 50% or in accordance with applicable regulations
- 3) The 3M™ E-A-R™ Hearing Protection listed here were selected for use in a typical welding environment. For additional 3M hearing protection selections, and to get more product information and specifications, please visit www.3m.com/hearing.

Always read and follow all User Instructions.

3M[™] DBI-SALA[®] Delta[™] Harnesses



Fall Protection for High Heat Environments





Fire and sparks are a major concern in jobs such as welding, cutting and other high temperature applications. Keeping safe requires special materials to resist these hazards.

1105475 3M[™] DBI-SALA[®] Delta[™] Harness for Hot Work Use

Vest-style, with Nomex®/Kevlar® fibre web, back D-ring, with conductivity reducing anti spark hardware, pass-through buckle leg straps, loops for belt (Universal Size). Maximum 700° Fahrenheit char temperature. 310 lbs. (140 Kg) capacity.



3M[™] DBI-SALA[®] Nano-Lok[™] for Hot Work Use Self-Retracting Lifelines (SRL)

This unique SRL is reinforced with Kevlar® fiber to withstand sparks, weld splatter and other heat exposure.

- 6 ft. (1.8 m) working length
- Universal hot work icon to quickly and easily identify hot work products.
- Equipped with RFID.

Just a sample of what fall protection products we have to offer!

Visit 3M.com/FallProtection or call our Fall Protection Customer service at 800-328-6146 to learn more.

Parts Directory

Content

| Selec | tor 6 - find the right protection plate to your welding filter | 67 |
|-------|---------------------------------------------------------------------|---------|
| | 3M™ Speedglas™ Welding Helmet 9100 | 68 |
| | 3M [™] Speedglas [™] Welding Helmet 9100 FX | 70 |
| | 3M [™] Speedglas [™] Welding Helmet 9100-QR | 72 |
| | 3M™ Speedglas™ Welding Helmet 9002NC | 74 |
| | 3M [™] Speedglas [™] Welding Helmet SL | 75 |
| | 3M [™] Speedglas [™] Welding Helmet 100/100-QR | 76 |
| | Spare parts for older 3M™ Speedglas™ Welding Helmets (non-air) | 79 |
| Selec | etor 7 - powered and supplied air system overview | 80 |
| Upgra | ade to the latest welding helmet systems | 81 |
| | 3M™ Adflo™ Powered Air Respirator | 82 |
| | 3M™ Speedglas™ Fresh-air III Supplied Air Regulators | 84 |
| | 3M [™] Supplied Air Hoses and Panels | 84 |
| | 3M™ Speedglas™ Welding Helmet 9100-Air | 86 |
| | 3M [™] Speedglas [™] Welding Helmet 9100 FX-Air | 88 |
| | 3M [™] Speedglas [™] Welding Helmet 9100 MP | 90 |
| Spare | parts for older 3M™ Speedglas™ Welding Helmets (for respirator syst | ems) 94 |
| | 3M [™] Hard hat H-701 | 95 |
| | 3M [™] Versaflo [™] M-Series Headtops | 96 |
| Produ | ıct index | 98 |
| | | |



As the outer protection plate becomes deeply pitted, scratched or too dirty to clean with soft cloth, it's probably time to replace it. Ensure you order the right plate for your filter:

| Ou | Outer protection plate | | For welding filter model | | | | | |
|------------|------------------------|-------|--------------------------|--------|---------|--------|----|------------|
| Part No | Description | 9100V | 9100X | 9100XX | 9100XXi | 9002NC | SL | 100 Series |
| 04-0270-01 | Standard | | | | | • | | |
| 04-0270-03 | Scratch resistant | | | | | • | | |
| 04-0270-04 | Heat resistant | | | | | • | | |
| 06-0200-51 | Standard | • | • | • | • | | | |
| 06-0200-52 | Scratch resistant | • | • | • | • | | | |
| 06-0200-53 | Heat resistant | • | • | • | • | | | |
| 05-0250-00 | Standard | | | | | | • | |
| 05-0250-01 | Scratch resistant | | | | | | • | |
| 07-0200-51 | Standard | | | | | | | • |
| 07-0200-52 | Scratch resistant | | | | | | | • |
| 07-0200-53 | Heat resistant | | | | | | | • |

The table shows our current program of welding filters, if you have an older helmet model check page 79 for consumables.

Regularly clean the inner cover plate with a soft cloth and replace if any pits or scratches occur. Ensure you order the right plate for your filter:

| Inner cover plate | | | For welding filter model | | | | | | |
|-------------------|-------------|------------|--------------------------|-------|--------|---------|--------|----|------|
| Part No | Description | LxH | 9100V | 9100X | 9100XX | 9100XXi | 9002NC | SL | 100V |
| 04-0290-00 | Clear | 3.6"x1.7" | | | | | | • | • |
| 04-0280-00 | Clear | 4.1"x2.1" | | | | | • | | |
| 04-0280-01 | +1 Shade | 4.1"x2.1" | | | | | • | | |
| 04-0280-02 | +2 Shade | 4.1"x2.1" | | | | | • | | |
| 06-0200-10 | Clear | 4.6"x1.97" | • | | | | | | |
| 06-0200-20 | Clear | 4.6"x2.4" | | • | | | | | |
| 06-0200-30 | Clear | 4.6"x3" | | | • | • | | | |

The table shows our current program of welding filters, if you have an older helmet model check page 79 for consumables.

69

3M™ Speedglas™ Welding Helmet 9100









06-0000-10





06-0000-20 06-0000-30

Helmets with side windows - auto-darkening filter

| Part No | Description |
|---------------|------------------------------------------------------------------------------------------------------|
| 06-0100-10SW | With Speedglas welding filte 9100X (1.8"x3.7".). |
| 06-0100-20SW | With Speedglas welding filte 9100X (2.1"x 4.2".). |
| 06-0100-30SW | With Speedglas welding filte 9100XX (2.8"x4.2"). |
| 06-0100-30iSW | With Speedglas filter kit 9100XXi, incl welding filter and front cover 9100XXi (2.8"x4.2"). |

Helmets without welding filter

| Part No | Description | Par |
|--------------|---------------------------------------------------------------------------|-----|
| 06-0300-51 | Welding helmet 9100 without side windows, with headband and silver front. | 06- |
| 06-0300-51SW | Welding helmet 9100 with side windows, headband and front cover. | 06- |
| | | 06- |
| | | |

Welding filters

| Part No | Description | |
|-------------|----------------------------------------------------------------------|--|
| 06-0000-10 | Auto-darkening filter 9100V, variable shade 5, 8, 9–13 (1.8"x3.7"). | |
| 06-0000-20 | Auto-darkening filter 9100X, variable shade 5, 8, 9–13 (2.1"x 4.2"). | |
| 06-0000-30 | Auto-darkening filter 9100XX, variable shade 5, 8, 9–13 (2.8"x4.2"). | |
| 06-0000-30i | Auto-darkening filter 9100XXi variable shade 5, 8, 9–13 (2.8"x4.2"). | |

3M[™] Speedglas[™] Welding Filter Kit 9100XXi

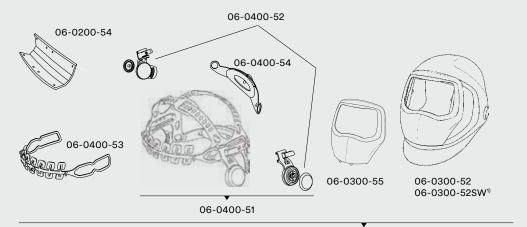
Our top-of-the-line welding filter with improved optics and a special designed front cover with external controls for grinding and memory modes. This complete kit (front cover and welding filter) is compatible with Speedglas welding helmet models 9100, 9100-Air and 9100-QR.

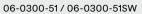
Read more about the new 9100XXi welding filter on page 16.



06-0000-30i-KIT Welding filter and front cover 9100XXi

Spare parts & accessories for 3M™ Speedglas™ Welding Helmet 9100





Outer protection plate,

Outer protection plate,

resistant, 10/case.

resistant, 50/case.

resistant, 10/case.

resistant, 50/case.

standard, 10/case.

front cover 9100.

with front cover.

with front cover 9100.

Welding helmet with side

Outer protection plate scratch

Outer protection plate scratch

Outer protection plate heat

Outer protection plate heat

Comfort sweatband, 3/case.

Welding helmet without side

windows and headband, with

Welding helmet without side windows, without headband,

windows, without headband,

windows, with headband.

Welding helmet with side

10/case.

50/case.



06-0500-51



06-0500-531)

06-0500-52





04-0023-022)

06-0300-55

06-0300-55i

06-0014-00NR

| rt No | Description | _ | Part No | Description | | P |
|-----------|----------------|----------------------------------------|-------------------------------------------------------|----------------------------------------|------------------------------------------------------|---|
| 04-0400- | 55 04-0320-00 | | | | | |
| | 0000-30i-KIT | 06-0200-51 06-0200-52 06-0200-53 | 06-0000-10 06-0000-20 06-0000-30 06-0000-30i | 06-0200-10 06-0200-20 06-0200-30 | 06-0500-56 06-0500-57 06-0500-58 06-0500-59 | |
| 06-0000-3 | 0i 06-0300-55i | | | | | |

06-0200-51

06-0200-51B

06-0200-52

06-0200-52B

06-0200-53

06-0200-53B

06-0200-54

06-0300-51

06-0300-52

06-0300-51SW

06-0300-52SW

| Description |
|------------------------------------------------------------------|
| Heat-reflecting front cover 9100. Heat-reflecting front cover |
| |

| | 9100XXi. |
|-------------------------|----------------------------------|
| 6-0400-51 | Headband with assembly parts. |
| 6-0400-52 | Pivot mechanism, left and right. |
| 6-0400-53 | Headband front part. |
| 6-0400-54 | Headband back part. |
| 6-0500-51 | Head protection. |
| 6-0500-52 | Neck protection. |
| 6-0500-53 ¹⁾ | Side windows cover plate, |
| | 2 pairs. |
| 6-0500-56 | Magnifying lens 1.5. |
| 6-0500-57 | Magnifying lens 2.0. |
| 0 0500 50 | |

06-0500-58 Magnifying lens 2.5. 06-0500-59 Magnifying lens 3.0. 06-0700-83

1) Please use Part No 06-0300-52SW when new side windows are required.

3M™ Hard hat H701, white

Battery holder, 2/case.

Speedglas welding filter

Speedglas welding filter

Speedglas welding filter kit

9100XXi (incl front cover and

Hard hat adapter 9100, with

Inner cover plate for 9100V

filter, 5/case. Plate marking

Inner cover plate for 9100X

filter, 5/case. Plate marking

Inner cover plate for 9100XX/

9100XXi filters, 5/case. Plate

Speedglas welding filter 9100V.

Speedglas welding filter 9100X.

(unvented).

9100XXi.

117×50.

117×61.

assembly parts.

marking 117×77.

Battery, 2/case.

2) Many alternative colors available, see page 95

04-0023-02

04-0320-00

04-0400-55

06-0000-10

06-0000-20

06-0000-30

06-0000-30i

06-0000-30i-KIT

06-0014-00NR

06-0200-10

06-0200-20

06-0200-30

71

3M[™] Speedglas[™] Welding Helmet 9100 FX



Helmets with side windows - and auto-darkening filter Part No

With Speedglas welding filter 9100X (1.8"x3.7".). 06-0600-10SW 06-0600-20SW With Speedglas welding filter 9100X (2.1"x 4.2".). With Speedglas welding filter 9100XX (2.8"x4.2"). 06-0600-30SW



Helmet without welding filter 06-0600-00SW Welding helmet 9100 FX with

front cover.

side windows, headband and









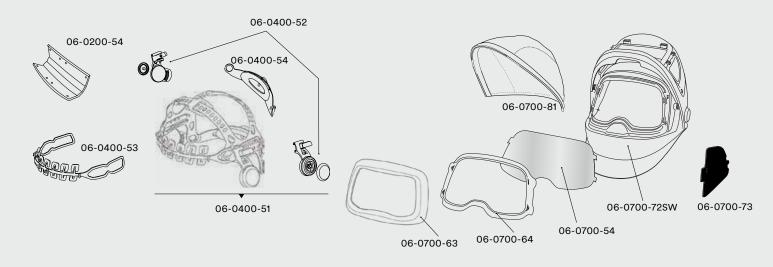
06-0000-20

Alternative 3M[™] Speedglas[™] **Welding Filters**

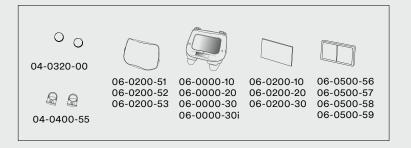
| Part No | Description |
|-------------|---------------------------------------------------------------------------|
| 06-0000-10 | Auto-darkening filter 9100V, variable shade 5, 8, 9–13 (1.8"x3.7"). |
| 06-0000-20 | Auto-darkening filter 9100X, variable shade 5, 8, 9–13 (2.1"x4.2"). |
| 06-0000-30 | Auto-darkening filter 9100XX, variable shade 5, 8, 9–13 (2.8"x4.2"). |
| 06-0000-30i | Auto-darkening filter 9100XXi variable shade 5, 8, 9–13 |



Spare parts & accessories for 3M™ Speedglas™ Welding Helmet 9100 FX



06-0600-00SW







06-0700-83

06-0700-82

| art No | Description | Part No | Description | Part No | Description |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------|
| 4-0023-02 | 3M [™] Hard hat H701, white (unvented). | 06-0200-52 | Outer protection plate scratch resistant, 10/case. | 06-0600-00SW | Welding helmet, without welding filter, with headband. |
| 4-0320-00 | Battery CR2032 Lithium 3V, 2/case. | 06-0200-52B | Outer protection plate scratch resistant, 50/case. | 06-0614-00NR | Hard hat adapter 9100FX, with assembly parts. |
| 4-0400-55 6-0000-P11 | Battery holder, 2/case. Speedglas passive welding filter | 06-0200-53 | Outer protection plate heat resistant, 10/case. | 06-0700-54 06-0700-81 | Visor plate anti-fog, 5/case. Head protection (small). |
| 6-0000-10 | kit 9100 (shade 11). Speedglas welding filter 9100V. | 06-0200-53B | Outer protection plate heat resistant, 50/case. | 06-0700-82 06-0700-83 | Head protection (large). Hood, black/grey. |
| 6-0000-20 6-0000-30 | Speedglas welding filter 9100X. Speedglas welding filter 9100XX. | 06-0200-10 | Inner cover plate for 9100V filter, 5/case. Plate marking | 06-0700-73 | Side windows cover plate, 2 pairs. |
| 6-0000-30i | Speedglas welding filter 9100XXi. | | 117×50. | 06-0700-63 | Front panel, crome. |
| 6-0200-20 | Inner cover plate for 9100X filter, | 06-0200-54 06-0400-51 | Comfort sweatband, 3/case. Headband with assembly parts. | 06-0700-64 | Wide-view clear grinding visor frame, black. |
| 6-0200-30 | 5/case. Plate marking 117×61. Inner cover plate for 9100XX/ 9100XXi filters, 5/case. Plate marking 117×77. | 06-0400-52 06-0400-53 06-0400-54 06-0500-52 | Pivot mechanism, left and right. Headband front part. Headband back part. Neck protection, black. | 06-0700-72SW | Welding helmet, without welding filter, without headband. |
| 6-0200-51 | Outer protection plate, | 06-0500-56 06-0500-57 | Magnifying lens 1.5. Magnifying lens 2.0. | | |
| 6-0200-51B | Outer protection plate, 50/case. | 06-0500-58 06-0500-59 | Magnifying lens 2.5. Magnifying lens 3.0. | | |

1) Many alternative colors available, see page 95

Always read and follow all User Instructions. Always read and follow all User Instructions.

3M[™] Speedglas[™] Welding Helmet 9100-QR



Welding helmets - with 3M™ Hard hat H-701

| Part No | Description |
|--------------|--------------------------------------------------------------------------|
| 06-0100-10QR | With Speedglas welding filter 9100X, with rail and hard hat (1.8"x3.7"). |
| 06-0100-20QR | With Speedglas welding filter 9100X, with rail and hard hat (2.1"x4.2"). |
| 06-0100-30QR | With Speedglas welding filter 9100XX (2.8"x4.2"). |



Welding helmets - without hard hat Part No Description

06-0300-54QR With QR rail, without hard hat, without welding filter.



06-0000-30i





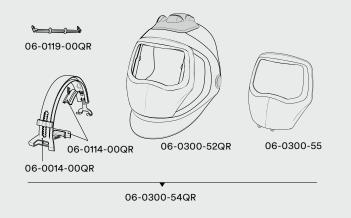


06-0000-10

Alternative 3M[™] Speedglas[™] **Welding Filters**

| Part No | Description |
|-------------|----------------------------------------------------------------------|
| 06-0000-10 | Auto-darkening filter 9100V, variable shade 5, 8, 9–13 (1.8"x3.7"). |
| 06-0000-20 | Auto-darkening filter 9100X, variable shade 5, 8, 9–13 (2.1"x4.2"). |
| 06-0000-30 | Auto-darkening filter 9100XX, variable shade 5, 8, 9–13 (2.8"x4.2"). |
| 06-0000-30i | Auto-darkening filter 9100XXi variable shade 5, 8, 9–13 (2.8"x4.2"). |



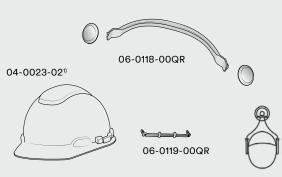


00

22

04-0400-55

04-0320-00





06-0116-00QR

06-0500-56 06-0200-51 06-0000-10 06-0200-10 06-0200-52 06-0000-20 06-0200-20 06-0500-57 06-0200-53 06-0000-30 06-0200-30 06-0500-58

06-0500-59



Distance bar

To avoid scratches on the larger welding filters (9100X, 9100XX, 9100XXi) when raising the welding helmet, we recommend using this distance bar (included when you buy a complete helmet with these welding filters). Also sold as spare part.

Part No 06-0119-00QR





Earmuff bar

When using earmuffs, we recommend you to install this earmuff bar to widen the 9100-QR welding helmet.

Sold as separate accessory. Part No 06-0118-00QR

| Part No | Description | Part No | Description | Part No | Description |
|--------------------------|-----------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------|
| 04-0023-021) | 3M [™] Hard hat H-701R, white (unvented). | 06-0200-51B | Outer protection plate, 50/case. | X1P5E | 3M [™] Peltor [™] Earmuffs X1 helmet attachment. |
| 04-0320-00 | Battery CR2032 Lithium 3V, 2/case. | 06-0200-52 | Outer protection plate scratch resistant, 10/case. | X2P5E | 3M [™] Peltor [™] Earmuffs X2 helmet attachment. |
| 04-0400-55 | Battery holder for welding filter series 9100, 2/case. | 06-0200-52B | Outer protection plate scratch resistant, 50/case. | X3P5E | 3M [™] Peltor [™] EarMuffs X3 helmet attachment. |
| 06-0000-10 06-0000-20 | Speedglas welding filter 9100V. Speedglas welding filter 9100X. | 06-0200-53 | Outer protection plate heat resistant, 10/case. | X4P5E | 3M™ Peltor™ Earmuffs X4 helmet attachment. |
| 06-0000-30 | Speedglas welding filter 9100XX. | 06-0200-53B | Outer protection plate heat resistant, 50/case. | X5P5E | 3M™ Peltor™ Earmuffs X5 helmet attachment. |
| 06-0000-30i | Speedglas welding filter 9100XXi. | 06-0300-52QR | Welding helmet 9100-QR without rail, without welding | | |
| 06-0000-30i-KIT | Speedglas welding filter kit 9100XXi (incl front cover and welding filter). | 06-0300-54QR | filter, without hard hat. Welding helmet 9100-QR with rail, without welding filter, | | |
| 06-0014-00QR | Quick release rail for hard hat. | | without hard hat. | | |
| 06-0114-00QR | Rubber friction pads for quick release rail. | 06-0300-55 06-0300-55i | Heat-reflecting front cover 9100. Heat-reflecting front cover | | |
| 06-0116-00QR | Pivot cover plate kit for quick release welding helmets, 2/case. | 06-0500-56 06-0500-57 | 9100XXi. Magnifying lens 1.5. Magnifying lens 2.0. | | |
| 06-0200-10 | Inner cover plate for 9100V filter, 5/case. Plate marking 117×50. | 06-0500-58 06-0500-59 | Magnifying lens 2.5. Magnifying lens 3.0. | | |
| 06-0200-20 | Inner cover plate for 9100X filter, 5/case. Plate marking 117×61. | 06-0119-00QR | Distance bar for welding filters 9100X, 9100XX and 9100XXi. | | |
| 06-0200-30 | Inner cover plate for 9100XX/ 9100XXi filters, 5/case. Plate | 06-0118-00QR | Earmuff bar for Speedglas welding helmet 9100-QR. | | |
| 06-0200-51 | marking 117×77. Outer protection plate, 10/case. | 18-0099-68 | Ear and neck protection in leather. | | |

06-0000-30i

1) Many alternative colors available, see page 95

06-0000-30i 06-0300-55i

06-0000-30i-KIT

3M[™] Speedglas[™] Welding Helmet 9002NC



Helmet with auto-darkening filter

Part No

04-0100-20NC variable shade 8–12

(2.1"x4.2").

Description Welding helmet without side windows, with welding filter 9002NC,



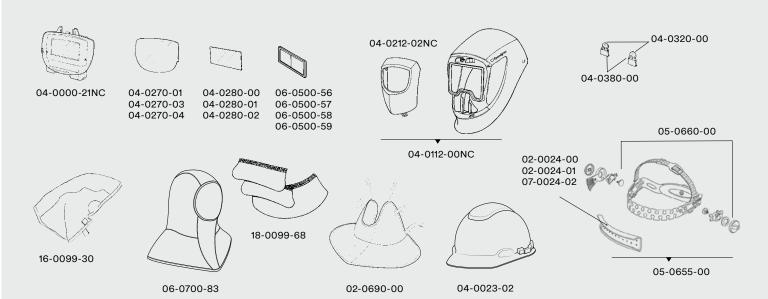
Welding filter (only)

Part No Description

04-0000-21NC

3M™ Speedglas™ Welding Filter 9002NC, variable shade 8-12 (2.1"x4.2").

Spare parts & accessories for 3M™ Speedglas™ Welding Helmet 9002NC



| Part No | Description | Part No | Description | Part No | Description |
|--------------|-----------------------------------|--------------|-------------------------------|--------------|--------------------------------|
| 02-0024-01 | Sweatband, leather. | 04-0280-01 | Inner cover plate, +1 Shade, | 06-0500-59 | Magnifying lens 3.0. |
| 02-0024-00 | Sweatband, cotton fleece with | | 5/case. | 06-0700-83 | Hood. |
| | padding. | 04-0280-02 | Inner cover plate, +2 Shades, | 07-0024-02 | Sweatband, fleece, 2/case. |
| 02-0690-00 | Neck protection. | | 5/case. | 07-0014-00NR | Hard hat adapter with assembly |
| 04-0000-21NC | Speedglas welding filter | 04-0320-00 | Battery CR2032 Lithium 3V, | | parts, without hard hat (not |
| | 9002NC, shade 8-12. | | 2/case. | | shown). |
| 04-0023-02 | 3M™ Hard hat H701, | 04-0380-00 | Battery cover, 2/case. | 16-0099-30 | Head protection. |
| | white (unvented). | 04-0112-00NC | Welding Helmet 9000 without | 18-0099-68 | Ear and neck protection in |
| 04-0270-01 | Outer protection plate, standard, | | ADF welding filter. | | leather. |
| | 10/case. | 04-0212-02NC | Front cover | | |
| 04-0270-03 | Outer protection plate, scratch | 05-0655-00 | Headband with assembly parts. | | |
| | resistant, 10/case. | 05-0660-00 | Assembly parts for headband. | | |
| 04-0270-04 | Outer protection plate, heat | 06-0500-56 | Magnifying lens 1.5. | | |
| | resistant, 10/case. | 06-0500-57 | Magnifying lens 2.0. | | |
| 04-0280-00 | Inner cover plate 5/case. | 06-0500-58 | Magnifying lens 2.5. | | |

3M[™] Speedglas[™] Welding Helmet SL



Helmet with auto-darkening filter

Part No

Description

05-0013-41 Welding helmet SL with

welding filter, variable shade 8-12 (1.7"x3.7").



Welding filter (only)

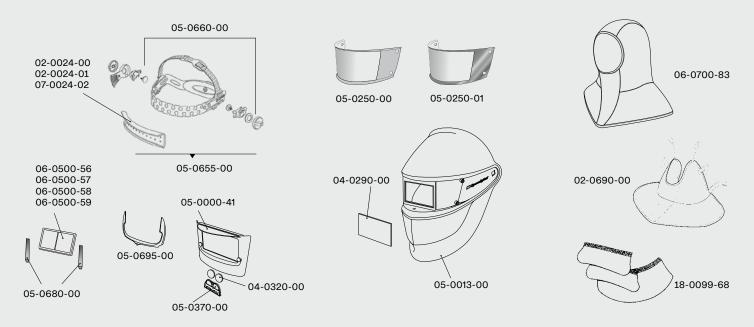
Part No Description

05-0000-41

3M[™]Speedglas[™] Welding Filter SL, variable shade 8-12 (1.7"x3.7").

75

Spare parts & accessories for 3M™ Speedglas™ Welding Helmet SL



| Part No | Description | Part No | Description | Part No | Description |
|------------|-------------------------------|------------|-------------------------------|------------|-----------------------------------|
| 18-0099-68 | Ear and neck protection in | 06-0500-59 | Magnifying lens 3.0. | 05-0695-00 | Spatter protector |
| | leather (3 parts). | 05-0680-00 | Holder for magnifying lens. | 05-0250-00 | Outer protection plate, standard, |
| 07-0024-02 | Sweatband, fleece, 2/case. | 04-0320-00 | Battery CR2032 Lithium 3V, | | 5/case. Plate marking 030226. |
| 02-0024-01 | Sweatband, leather. | | 2/case. | 05-0250-01 | Outer protection plate, scratch |
| 02-0024-00 | Sweatband, cotton fleece with | 04-0290-00 | Inner cover plate 5/case. | | resistant, 5/case. Plate marking |
| | padding. | | Plate marking 42 02 00. | | 030248. |
| 02-0690-00 | Neck protection. | 05-0000-41 | Speedglas welding filter SL. | 05-0370-00 | Battery cover. |
| 06-0700-83 | Hood black/grey. | 05-0013-00 | Welding helmet, without | | , |
| 06-0500-56 | Magnifying lens 1.5. | | headband. | | |
| 06-0500-57 | Magnifying lens 2.0. | 05-0655-00 | Headband with assembly parts. | | |
| 06-0500-58 | Magnifying lens 2.5. | 05-0660-00 | Assembly parts for headband. | | |

3M[™] Speedglas[™] Welding Helmet Series 100/100-QR



3M™ Speedglas™ Welding Helmet 100 (black)

Part No

Description

07-0012-31BL

07-0012-00BL

With Speedglas welding filter 100V, variable shade 8-12 (1.7"x3.7"). Without welding filter, without headband.



3M™ Speedglas™ Welding Helmet 100-QR

Part No

Description

07-0114-00BLQR

Welding helmet 100-QR without welding filter, without hard hat, with QR

07-0012-31BLQR

Welding helmet 100-QR with 3M hard hat H-701R QR rail and welding filter 100-V (1.7"x3.7").







07-0001-31 07-0001--11

Alternative 3M™ Speedglas™ Welding Filters

Part No Description

07-0001-10

Auto-darkening filter 100S-10, single shade 10 (1.7"x3.7").

07-0001-11

Auto-darkening filter 100S-11, single shade 11 (1.7"x3.7").

07-0001-31

Auto-darkening filter 100-V, variable shade 8-12 (1.7"x3.7").



Tribute

Part No Description

07-0012-31TB With filter 100V.



Trojan Warrior helmet

Part No

07-0012-31TW



Aces High helmet

Part No Description

07-0012-31AH

With filter 100V.



Description

With filter 100V.

Steel Rose helmet

Part No Description

07-0012-31SR

With filter 100V.



Blaze helmet Part No

07-0012-31BZ

Description

With filter 100V.

Spare parts & accessories for 3M™ Speedglas™ Welding Helmet Series 100/100-QR



07-0200-53



07-0001-31



04-0290-02

04-0290-01

07-0680-00

06-0500-56 06-0500-57 06-0500-58 06-0500-59



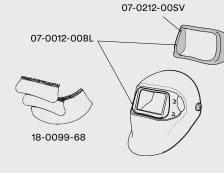
05-0370-00

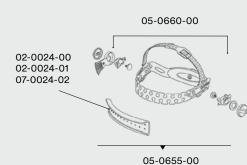




06-0700-83









Part No

06-0114-00QR





07-0112-00BL-QR

07-0114-00BL-QR

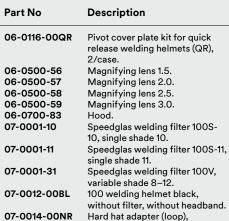
07-0024-02



| Description | |
|-------------|--|
| | |

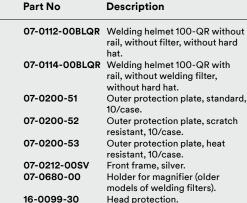
| 02-0024-00 | Sweatband, cotton fleece with padding. |
|--------------|----------------------------------------|
| 02-0024-01 | Sweatband, leather. |
| 02-0690-00 | Neck protection. |
| 04-0023-021) | White 3M™ Hard hat H-701R |
| | (unvented), with ratchet |
| | suspension. |
| 04-0290-00 | Inner cover plate, 5/case. |
| | Plate marking 42 02 00. |
| 04-0290-01 | Inner cover plate, +1 shade, |
| | 5/case. |
| 04-0290-02 | Inner cover plate, +2 shade, |
| | 5/case. |
| 04-0320-00 | Battery CR2032 Lithium 3V, |
| | 2/case. |
| 05-0370-00 | Battery cover. |
| 05-0655-00 | Headband with assembly parts. |
| 05-0660-00 | Assembly parts for headband. |
| 06-0014-00QR | Quick release rail for hard hat. |

Rubber friction pads for quick



with assembly parts.

Sweatband, fleece, 2/case



leather.

Ear and neck protection in

18-0099-68

1) Many alternative colors available, see page 95

release rail.

3M[™] Welding Helmets 10V



3M™ Welding Helmet 10V Description

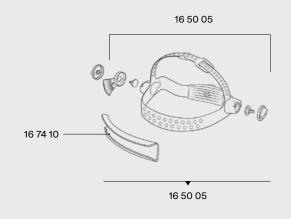
10 11 21 with welding filter 10V, variable shade 10-12 (1.7"x3.7").

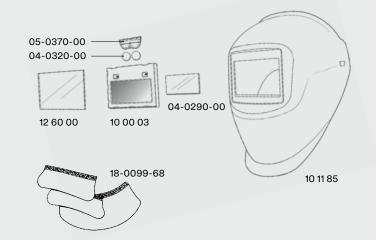


3M™ Welding Filter 10V Description

Welding filter 10V, variable shade 10–12 (1.7"x3.7").

Spare parts & accessories for 3M™ Welding Helmets 10V





| Part No | Description | Part No | Description |
|----------------------|-------------------------------------------------------------------|------------|-----------------------------------------------|
| 10 00 03 10 11 85 | 3M welding filter 10V, shade 10–12. Welding helmet 10V without | 04-0320-00 | Battery CR2032 Lithium 3V, 2/case. |
| | headband, without welding filter. | 04-0290-00 | Inner cover plate 5/case. Plate |
| 12 60 00 16 50 05 | Outer protection plate. Headband with assembly parts. | 05-0370-00 | marking 42 02 00. Battery cover. |
| 16 60 00 16 74 10 | Assembly parts for headband. Sweatband. | 18-0099-68 | Ear and neck protection in leather (3 parts). |

3M[™] Speedglas[™] Welding Helmets FlexView / ProTop / Utility



Spare parts for 3M™ Speedglas™ Welding Helmets FlexView / ProTop / Utility



02-0024-00

02-0024-01

07-0024-02



05-0660-00

05-0655-00



04-0216-00



04-0360-00

04-0460-00

04-0260-00

04-0320-00 04-0380-00

06-0500-56 06-0500-57 06-0500-58 06-0500-59

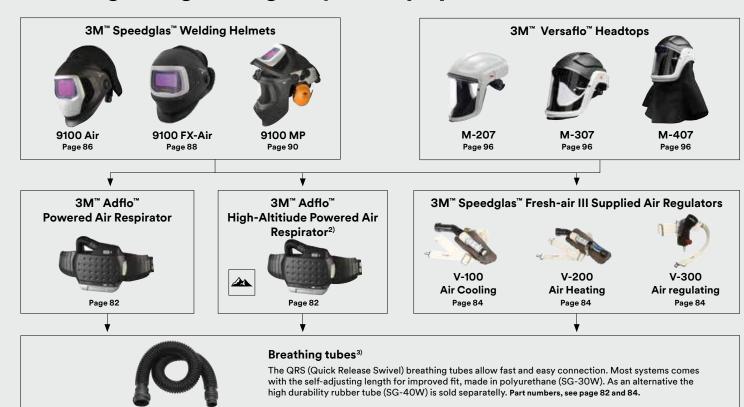
04-0290-00 04-0280-00 04-0290-01 04-0270-01 04-0280-01 04-0270-03 04-0290-02 04-0270-04 04-0280-02





| Part No | Description | Part No | Description | Part No | Description |
|--------------|-----------------------------------|------------|------------------------------------|------------|----------------------------|
| 02-0024-00 | Sweatband, cotton fleece with | 04-0280-02 | Inner cover plate | 06-0500-58 | Magnifying lens 2.5. |
| | padding. | | (2.1"x4.1"), +2 Shade, 5/case. | 06-0500-59 | Magnifying lens 3.0. |
| 02-0024-01 | Sweatband, leather. | 04-0290-00 | Inner cover plate (1.7"x3.6") | 06-0700-83 | Hood. |
| 02-0690-00 | Neck protection. | | 5/case. Plate marking 42 02 00. | 07-0024-02 | Sweatband, fleece, 2/case |
| 04-0112-00NC | Helmet without side windows, | 04-0290-01 | Inner cover plate (1.7"x3.6"), | 16-0099-30 | Head protection. |
| | without headband, without | | +1 Shade for 9002D/9002V | 18-0099-68 | Ear and neck protection in |
| | welding filter. | | filters, 5/case. | | leather. |
| 04-0212-02NC | Front cover. | 04-0290-02 | Inner cover plate (1.7"x3.6"), | | |
| 04-0216-00 | Front cover FlexView, silver. | | +2 Shade 5/case. | | |
| 04-0260-00 | Protective visor plate FlexView, | 04-0320-00 | Battery CR2032 Lithium 3V, | | |
| | 10/case. | | 2/case. | | |
| 04-0270-01 | Outer protection plate, standard, | 04-0360-00 | Holder for welding filter | | |
| | 10/case. Plate marking 42 01 50. | | (FlexView). | | |
| 04-0270-03 | Outer protection plate, scratch | 04-0361-00 | Middle helmet FlexView, black. | | |
| | resistant, 10/case. | 04-0380-00 | Battery cover, 2/case. | | |
| | Plate marking 42 01 00. | 04-0460-00 | Speedglas FlexView Conversion | | |
| 04-0270-04 | Outer protection plate, heat | | Kit. | | |
| | resistant, 10/case. Plate marking | 04-0550-00 | FlexView locking wedge kit, | | |
| | 42 01 71 HEAT. | | holder welding filter (not shown). | | |
| 04-0280-00 | Inner cover plate (2.1"x4.1") | 05-0655-00 | Headband with assembly parts. | | |
| | 5/case. Plate marking 42 02 10. | 05-0660-00 | Assembly parts for headband. | | |
| 04-0280-01 | Inner cover plate | 06-0500-56 | Magnifying lens 1.5. | | |
| | (2.1"x4.1"), +1 Shade 5/case. | 06-0500-57 | Magnifying lens 2.0. | | |

Welding and grinding respiratory systems



Filters and accessories

- 1. Prefilter¹⁾
- 2. HE particulate filter¹⁾
- 3. Nuisance Odor Filter Not needed when you use OV/AG cartridge.
- 4. OV/AG cartridge⁴⁾ 5. Backpack

More information about Adflo accessories see page 83.





3M™ Adflo™ Battery Charger Organizing Stand

The 6-position battery charger organizing stand for Adflo battery chargers provides the ability to charge six batteries at the same time, saving both time and hassle. Compatible with legacy NiMH batteries and the new Li-ion batteries. Flexible installation: either mount on wall or stand-alone. Part No: 35-0099-08N6 Batteries and chargers not included

1) Included as standard when you order a complete 3M™ Adflo™ PAPR System with welding helmet; must always be used.

2) For welders working at higher altitudes there is a special respirator version to adjust for changes in air density: 3M™ Adflo™ High Altitude Turbo.

3) The 3M™ Speedglas™ Breathing Tube SG-50W is required when used with 3M™ Adflo™ PAPR with HE filter and OV/AG cartridge and 3M™ Speedglas™ Welding Helmets 9100-Air , 9/100MP or SM™ Versaflo™ Helmet M-407. The SG-50W breathing tube is not NIOSH approved with 3M™ Supplied Air Valves V-Series.

4) OV/AG cartridge must always be used together with HE filter.



Still using an older version of our welding respiratory helmets?

Did you know you can easily upgrade to our current premium welding helmets, without buying a new Adflo or Versaflo system? Our 9100 series helmets feature the QRS (Quick Release Swivel) type of breathing tube, which enables one-handed connection and release.

Below you will find ordering information to get a helmet kit, including welding filter and breathing tube. To help protect your new helmet system from scratches, we include a special Speedglas storage bag for free.

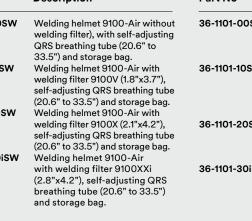


3M™ Speedglas™ Welding Helmet 9100-Air Description

| | • |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 35-1101-00SW | Welding helmet 9100-Air with welding filter), with self-adjusti QRS breathing tube (20.6" to 33.5") and storage bag. |
| 35-1101-10SW | Welding helmet 9100-Air with welding filter 9100V (1.8"x3.7") self-adjusting QRS breathing tu (20.6" to 33.5") and storage ba |
| 35-1101-20SW | Welding helmet 9100-Air with welding filter 9100X (2.1"x4.2"), self-adjusting QRS breathing tu (20.6" to 33.5") and storage ba |
| 35-1101-30iSW | Welding helmet 9100-Air with welding filter 9100XXi (2.8"x4.2"), self-adjusting QRS breathing tube (20.6" to 33.5") and storage bag. |



3M™ Speedglas™ Welding Helmet 9100 FX-Air





| Description |
|-------------------------------------------------------------------------------------------------------------------------------------------|
| Welding helmet 9100 FX-Air without welding filter, with self- adjusting QRS breathing tube (20.6" to 33.5") and storage bag |
| Welding helmet 9100 FX-Air with welding filter 9100V (1.8"x3.7"), self-adjusting QRS breathing tube (20.6" to 33.5") and storage bag. |
| Welding helmet 9100 FX-Air welding filter 9100X (2.1"x4.2"), self-adjusting QRS breathing tube (20.6" to 33.5") and storage bag. |
| Welding helmet 9100 FX-Air welding filter 9100XXi (2.8"x4.2"), self-adjusting QRS breathing tube (20.6" to 33.5") and storage bag. |
| |



3M™ Speedglas™ Welding Helmet 9100MP Description

| 37-1101-00SW | Welding helmet 9100 MP without welding filter, with self- adjusting QRS breathing tube (20.6" to 33.5") and storage bag |
|---------------|------------------------------------------------------------------------------------------------------------------------------------|
| 37-1101-10SW | Welding helmet 9100 MP with welding filter 9100V (1.8"x3.7"), self-adjusting QRS breathing tube (20.6" to 33.5") and storage bag. |
| 37-1101-20SW | Welding helmet 9100MP with welding filter 9100X (2.1"x4.2"), self-adjusting QRS breathing tube (20.6" to 33.5") and storage bag. |
| 37-1101-30iSW | Welding helmet 9100MP with welding filter 9100XXi (2.8"x4.2"), self-adjusting QRS breathing tube (20.6" to 33.5") and storage bag. |

3M™ Adflo™ Powered Air Respirator



Respirator without headtop

– for use with 9100 Series Headtops

Part No Description

Part No 35-5401-01

Adflo respirator with SG-30W self-adjusting breathing tube, airflow indicator, prefilter, spark arrestor, HE particulate filter, battery, belt and charger.



Respirator without headtop

– for use with L-Series Headtops

Part No Description

34-5401-02SG Adflo respirator with

L-122SG breathing tube, airflow indicator, prefilter, spark arrestor, HE particulate filter, battery, belt and charger.



Respirator without headtop – for use in High Altitude environments

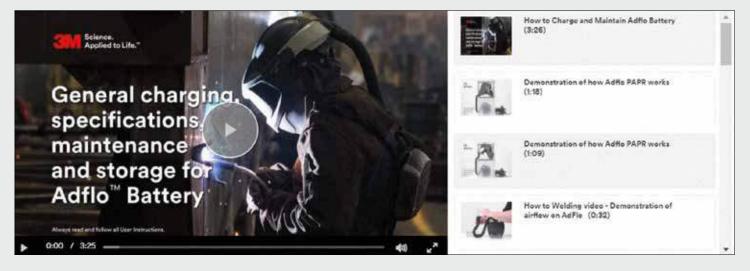
Part No Description

35-3499-01

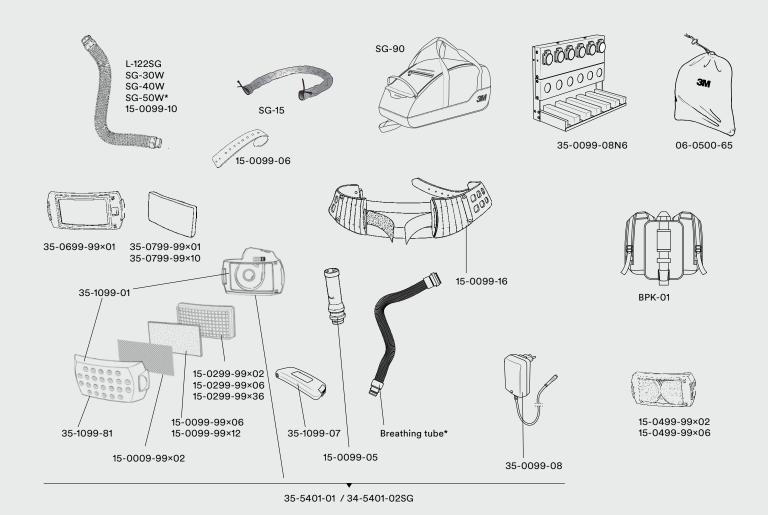
Adflo HA respirator with self adjusting breathing tube QRS, breathing tube adapter, airflow indicator, prefilter, spark arrestor, HE particulate filter, battery, belt and charger.

See a demo on how to replace your parts and maintain your welding respirator systems

Visit our website: www.3m.com/Speedglas



Spare parts & accessories 3M™ Adflo™ Powered Air Respirator



| Part No | Description | Part No | Description | Part No | Description |
|--------------|----------------------------------|---------------|------------------------------------|--------------|-----------------------------------|
| BPK-01 | Backpack | 15-0099-12 | O-ring for breathing tube | 35-0099-08 | Charger for Li-ion battery |
| L-122SG | Breathing tube for L-series | | assembly 15-0099-10. | 35-0099-08N6 | Docking station for chargers. |
| | headgear. | | (not shown). | 35-0099-14 | Belt connection (not shown) |
| SG-15 | Flame resistant breathing tube | 15-0099-16 | Belt, leather. | 35-0699-9901 | Nuisance odor filter |
| | cover (replaces 17-0099-54). | 15-0099-20 | Flow Indicator rubber adapter | 35-0699-9901 | Nuisance odor filter pad |
| SG-30W | Breathing tube, self-adjusting, | | (not shown). | 35-0699-9901 | Nuisance odor filter pad, 10/c |
| | with QRS connection. | 15-0099-21 | Flow Indicator. | 35-1099-01 | PAPR assembly and filter cover |
| SG-40W | Breathing tube, heavy-duty, with | 15-0099-9906 | Prefilter, 6/case. | 35-1099-07 | Battery Li-ion |
| | QRS connection. | 15-0099-9912 | Prefilter, 12/case. | 35-1099-81 | PAPR filter cover |
| SG-50W* | Breathing tube, sound- | 15-0299-9902 | HE particulate filter, 2/case. | 35-5401-01* | Adflo PAPR with SG-30W |
| | dampening, with QRS | 15-0299-9906 | HE particulate filter, 6/case. | | self-adjusting breathing tube, |
| | connection. | 15-0299-9936 | HE particulate filter, 36/case. | | airflow indicator, prefilter, |
| SG-90 | Carry bag, black. | 15-0499-9902 | OV/AG cartridge, 2/case | | spark arrestor, filter cover, HE |
| 06-0500-65 | Protective bag | 15-0499-9906 | OV/AG cartridge, 6/case | | particulate filter, battery, belt |
| 15-0009-9902 | Spark arrestor, 2/c | 15-1101-99 | Battery NiMH | | and charger. |
| 15-0099-05 | Airflow indicator | 15-1101-99 | Adflo service kit: HE particulate | | |
| 15-0099-06 | Leather belt front extender | | filters 2/c, prefilters 6/c, spark | | |
| 15-0099-08 | Charger for NiMH battery | | arrestor 2/case. | | |
| 15-0099-10 | Breathing tube assembly | 34-5401-02SG* | Adflo PAPR with L-122SG | | |
| | (including gasket and o-ring) | | breathing tube, airflow indicator, | | |
| 15-0099-11 | Gasket for non-QRS breathing | | prefilter, spark arrestor, filter | | |
| | tubes (not shown). | | cover, HE particulate filter, | | |
| | | | battery, belt and charger | | |

^{*} The 3M™ Speedglas™ Breathing Tube SG-50W is required when used with 3M™ Adflo™ PAPR with HE filter and OV/AG cartridge and 3M™ Speedglas™ Welding Helmets 9100 -Air or 9100 MP.

Always read and follow all User Instructions.

3M[™] Speedglas[™] Fresh-air III Supplied Air Regulators



Vortex supplied air regulator V-100 Part No Description

V-100

Vortex cooling assembly, includes valve V-150, belt W-2963 and holder.



Vortemp supplied air regulator V-200 Part No Description

V-200

Vortemp heating assembly, includes valve V-250, belt W-2963 and holder.



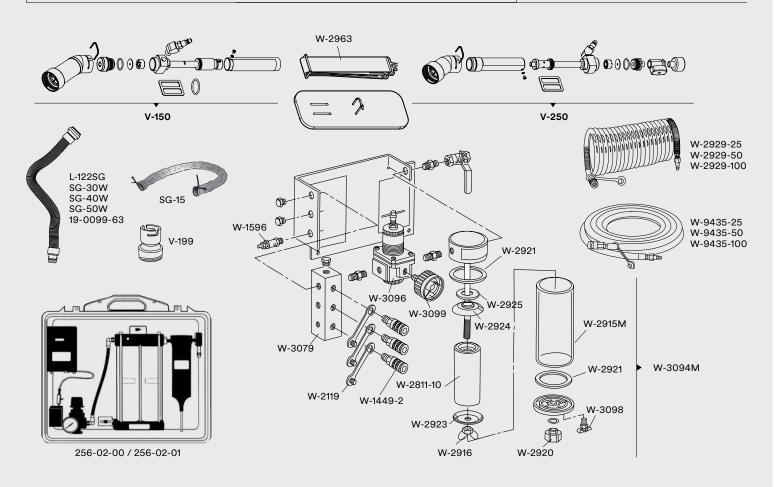
Regulator with air regulating valve V-300

Part No Description

V-300 3M™ Versaflo™ Air Regulating Valve Assembly.

| | 3M™ Supplied Air Hoses | | 3M™ Filter and Regulator Panels | |
|--------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Available Supplied Air Hoses and Panels | | | | |
| Part Numbers | W-9425-25 (25 ft). W-9435-50 (50 ft). W-9435-100 (100 ft). | W-2929-25 (25 ft). W-2929-50 (50 ft). W-2929-100 (100 ft). | W-2806 Filter and Regulator Panel, 50 cfm W-2808 CO Monitor Retrofit Kit. | 256-02-00 Portable Filter and Regulator Panel, 50 cfm. |
| Applications | 3/8 in High Pressure Hose (25, 50, or 100 ft). | | Helps to remove water, oil, particles, odors and vapors. | Removes limited amounts of carbon monoxide and other contaminants without using large desiccant drying towers. |

Spare parts & accessories for 3M™ Speedglas™ Fresh-air III Supplied Air Systems



| Part No | Description | Part No | Description | Part No | Description |
|-----------|--------------------------------------|-----------|---------------------------------------|------------|------------------------------------|
| L-122SG | Breathing tube for L-series | W-3079 | Manifold. | W-2929-100 | High pressure air supply hose, |
| | headgear. | W-3094M | Filter housing assembly. | | 100 ft. |
| SG-15 | Flame resistant breathing tube | W-3095 | Filter housing base (part of | W-2963 | Waist belt, cotton. |
| | cover (replaces 17-0099-54). | | W-3094M). | W-9435-25 | High pressure air supply hose, |
| SG-30W | Breathing tube, self-adjusting, with | W-3096 | Air pressure regulator. | | 25 ft. |
| | QRS connection. | W-3098 | Drain valve. | W-9435-50 | High pressure air supply hose, |
| SG-40W | Breathing tube, heavy-duty, with | W-3099 | Air pressure gauge. | | 50ft. |
| | QRS connection. | W-3182-2 | Socket, 3/8 in MPT, 1/4 in body | W-9435-100 | High pressure air supply hose, |
| SG-50W | Breathing tube, sound-dampening, | | size, schrader, 2/case (not shown). | | 100 ft. |
| | with QRS connection. | W-3281-2 | Socket, hansen S23 (3/8 in. | 19-0099-63 | Fresh-air III breathing tube |
| W-1449-2 | Socket, 3/8 in. MPT, 1/4 in. body | | Male NPT), 2/case (not shown). | | V-Series. |
| | size, industrial interchange, | V-111 | Vortex muffler kit (replacement | 256-02-00 | Portable compressed air filter and |
| | 2/case. | | muffler for the cooling assembly | | regulator panel, 50 cfm, |
| W-1596 | Pressure relief valve. | | V-100). | | 4 outlets, with carbon monoxide |
| W-2119 | Socket dust cap. | V-115 | Vortex spare parts kit (for the | | filtration and monitor. |
| W-2806 | Compressed air filter and regulator | | cooling assembly V-100). | 256-02-01 | Portable compressed air and |
| | panel. | V-150 | Vortex cooling valve. | | regulator panel, 100 cfm, |
| W-2808 | CO monitor with retrofit kit | V-199 | Adapter (for use with SG-30W and | | 8 outlets, with carbon monoxide |
| | (not shown). | | SG-40W breathing tubes), 4/case. | | monitor. |
| W-2811-10 | Filter cartridge, 10/case. | V-211 | Vortemp muffler kit (replacement | 529-04-48 | Calibration kit, large |
| W-2915M | Aluminum filter bowl. | | muffler for the heating assembly | | (not shown). |
| W-2916 | Wing nut. | | V-200). | 529-04-49 | Calibration kit, small |
| W-2920 | Nut base. | V-215 | Vortemp spare parts kit (for the | | (not shown). |
| W-2921 | Bowl gasket. | | heating assembly V-200). | 529-04-50 | Adapter, 110-120 Volts AC |
| W-2923 | Cartridge washer. | V-250 | Vortemp heating valve. | | (not shown). |
| W-2924 | Air deflector. | W-2929-25 | High pressure air supply hose, | 529-05-20 | Remote alarm and strobe audible |
| W-2925 | Air deflector gasket. | | 25 ft. | | (not shown). |
| W-3012 | Coalescing filter assembly. | W-2929-50 | High pressure air supply hose, 50 ft. | | |
| W-3013-4 | High efficiency filter element for | | | | |
| | | | | | |

Always read and follow all User Instructions.

W-3012 (not shown), 4/case.

3M™ Speedglas™ Welding Helmet 9100-Air Systems







06-0000-30

06-0000-10



06-0000-20 06-0000-30

Scan QR-code or use

www.youtube.com

/3MSpeedglas

this URL:

Helmet with powered air systems - HE particulate filtration

| Part No | Description | | |
|---------------|--------------------------------|--|--|
| 35-1101-00SW | Without welding filter with | | |
| | Adflo PAPR and HE filter. | | |
| 35-1101-10SW | With Speedglas welding | | |
| | filter 9100V (1.8"x3.7" and | | |
| | Adflo PAPR with HE filter. | | |
| 35-1101-20SW | With Speedglas welding | | |
| | filter 9100X (2.1"x4.2") and | | |
| | Adflo PAPR with HE filter. | | |
| 35-1101-30iSW | With Speedglas welding | | |
| | filter 9100XXi (2.8"x4.2") | | |
| | and Adflo PAPR with HE filter. | | |

Helmet with supplied air systems - V-100 cooling valve

| Part No | Description |
|---------------|--------------------------------------------------------------------------------------------------------|
| 25-5702-00SW | Without welding filter with Fresh-air III SAR, V-100 cooling valve (available in 2018). |
| 25-5702-30iSW | With Speedglas welding filter 9100XXi (2.8"x4.2") and Fresh-air III SAR, V-100 cooling valve. |

Alternative 3M™ Speedglas™ **Welding Filters**

| Description |
|-------------------------|
| Auto-darkening filter |
| 9100V, variable shade |
| 5, 8, 9–13 (1.8"x3.7"). |
| Auto-darkening filter |
| 9100X, variable shade |
| 5, 8, 9-13 (2.1"x4.2"). |
| Auto-darkening filter |
| 9100XX, variable shade |
| 5, 8, 9-13 (2.8"x4.2"). |
| Auto-darkening filter |
| 9100XXi variable shade |
| 5, 8, 9-13 (2.8"x4.2"). |
| |

Maintenance tips for 3M[™] Speedglas[™] Welding Helmet 9100-Air

Subscribe to our YouTube channel to learn more about product features and maintenance. A few examples:



Adjust the air duct length to your personal preferences.

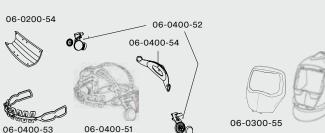


A face seal in good working order is essential at all times. Do you know how to replace it?



For additional protection against sparks or to cover for inside glare the extended head cover might be useful.

Spare parts & accessories for 3M™ Speedglas™ Welding Helmet 9100-Air







25-0099-35SW



04-0400-55

06-0000-30i-KIT

 \bigcirc

04-0320-00

06-0200-51

06-0200-51B

06-0200-52





06-0200-10 06-0200-20 06-0200-30

06-0400-53B

06-0400-54

06-0400-54B

06-0400-55

06-0400-55B



06-0000-10 06-0000-20 06-0000-30 06-0000-30i



06-0500-56 06-0500-57 06-0500-58 06-0500-59



06-0500-52



Part No Description Part No Description Part No Description 04-0320-00 06-0200-52B Part no 06-0200-52, 50/case Battery, 2/case. 06-0500-51 Extended coverage, crown. Welding filter 9100V. 06-0000-10 06-0200-53 06-0500-52 Outside protection plate high Extended coverage, ear and neck. Welding filter 9100X. 06-0000-20 temperature,10/case 06-0500-53 SideWindow cover plates, 06-0200-53B Part no 06-0200-53, 50/case 06-0000-30 Welding filter 9100XX. 2/case 06-0000-30i Welding filter 9100XXi 06-0200-54 Comfort sweatband, 3/case 06-0500-56 Magnification plate 1.5x. 06-000030iKIT Welding filter kit 9100XXi, 06-0200-54B 06-0500-57 Magnification plate 2.0x. Comfort sweatband, 12/case 06-0500-58 Magnification plate 2.5x. (filter and silver front) 06-0300-55 Silver front panel. 06-0200-10 Inside protection plate 9100V. Part no 06-0300-55, 5/case. 06-0300-55B 06-0500-59 Magnification plate 3.0x. 5/case 06-0300-55i Heat-reflecting front cover 06-0700-83 Full hood, black/grey 06-0200-10B Part no 06-0200-10, 25/case 9100XXi. 25-0099-28 06-0200-20 Inside protection plate 9100X, 06-0400-51 Headband incl assembled parts. 25-0099-35SW Welding helmet 9100-Air, without welding filter. 06-0400-51B Part no 06-0400-51, 5/case 5/case 06-0200-20B Part no 06-0200-20, 25/case 06-0400-52 25-0400-55 Air duct tube. Pivot mechanism headband. 06-0200-30 left and right. Inside protection plate Carry bag, black. 06-0400-52B 9100XX/9100XXi, 5/case Part no 06-0400-52, 5/case 06-0200-30B Part no 06-0200-30, 25/case 06-0400-53 Headband front part.

Part no 06-0400-53, 5/case

Part no 06-0400-54, 5/case

Battery holder 9100, 2/case

Part no 06-0400-55, 10/case

Headband back part.

1) Please use Part No 26-0099-35SW when new side windows are required

Outside protection plate standard, 10/case

resistant, 10/case

Part no 06-0200-51, 50/case

Outside protection plate scratch

3M[™] Speedglas[™] Welding Helmet 9100 FX-Air Systems







06-0000-30i







06-0000-10

06-0000-20 06-0000-30

Helmet with powered air systems - HE particulate filtration

| Part No | Description |
|----------------|------------------------------------|
| 36-1101-00SW | Without welding filter |
| | with Adflo PAPR and HE |
| | filter. |
| 36-1101-10SW | With Speedglas welding |
| | filter 9100V (1.8"x3.7") and |
| | Adflo PAPR with HE filter. |
| 36-1101-20SW | With Speedglas welding |
| | filter 9100X (2.1"x4.2") and |
| | Adflo PAPR with HE filter. |
| 36-1101-30iSW | With Speedglas welding |
| | filter 9100XXi (2.8"x4.2") |
| | and Adflo PAPR with HE |
| | filter. |
| 36-1101-00SWHA | Without welding filter with Adflo |
| | High Altitude PAPR with HE filter. |

Helmet with supplied air system

| Part No | Description |
|---------------|-------------------------------------------------------------------------------------------------------------------|
| 26-5702-00SW | Without welding filter, with Fresh-air III SAR, V-100 cooling valve. |
| 26-5702-30iSW | With Speedglas welding filter 9100XXi (2.8"x 4.2") and Fresh-air III SAR, V-100 cooling valve. Available in 2018. |

Alternative 3M™ Speedglas™ **Welding Filters**

| Part No | Description |
|-------------|----------------------------------------------------------------------|
| 06-0000-10 | Auto-darkening filter 9100V, variable shade 5, 8, 9–13 (1.8"x3.7"). |
| 06-0000-20 | Auto-darkening filter 9100X, variable shade 5, 8, 9–13 (2.1"x4.2"). |
| 06-0000-30 | Auto-darkening filter 9100XX, variable shade 5, 8, 9–13 (2.8"x4.2"). |
| 06-0000-30i | Auto-darkening filter 9100XXi variable shade 5, 8, 9–13 (2.8"x4.2"). |

this URL:

Maintenance tips for 3M™ Speedglas™ Welding Helmet 9100 FX-Air

Subscribe to our YouTube channel to learn more about product features and maintenance. A few examples:



It is important that the face seal is correctly mounted and fitted to provide the correct protection factor.



Is your clear visor not so clear anymore, after periods of frequent grinding? From our YouTube channel you will learn how to replace it.



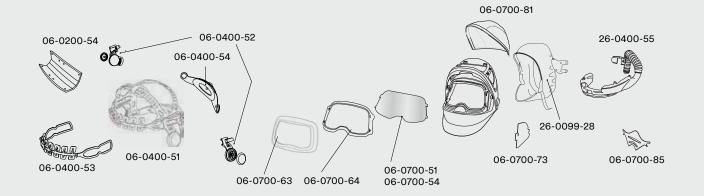
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/3MSpeedglas

If you need additional protection for your head, see how to assemble the head cover for additional protection against sparks here.

Spare parts & accessories for 3M™ Speedglas™ Welding Helmet 9100 FX-Air



26-0099-35SW



04-0400-55

06-0000-20

06-0000-20 06-0000-30 06-0000-30i





06-0500-57

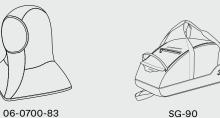
06-0500-58 06-0500-59







06-0700-82





06-0500-52

| Part No | Description | Part No | Description | Part No | Description |
|-------------|-------------------------------------------------|-------------|--------------------------------|--------------|---------------------------------|
| 04-0320-00 | Battery, 2/case. | 06-0200-53B | Outer protection plate heat | 06-0500-58 | Magnification plate 2.5x. |
| 06-0000-10 | Welding filter 9100V. | | resistant, 50/case. | 06-0500-59 | Magnification plate 3.0x. |
| 06-0000-20 | Welding filter 9100X. | 06-0200-54 | Comfort sweatband, 3/case | 06-0700-51 | Wide-view clear grinding visor, |
| 06-0000-30 | Welding filter 9100XX. | 06-0200-54B | Comfort sweatband (bulk), | | standard, 5/case. |
| 06-0000-30i | Welding filter 9100XXi. | | 12/case | 06-0700-54 | Wide-view clear grinding visor, |
| 06-0200-10 | Inside protection plate 9100V, | 06-0400-51 | Headband incl assembled parts. | | anti-fog, 5/case. |
| | 5/case | 06-0400-51B | Part no 06-0400-51 (bulk), | 06-0700-63 | Front panel, chrome. |
| 06-0200-10B | Part no 06-0200-10 (bulk), | | 5/case | 06-0700-64 | Wide-view clear grinding visor |
| | 25/case | 06-0400-52 | Pivot mechanism headband, | | frame, black |
| 06-0200-20 | Inside protection plate 9100X, | | left and right. | 06-0700-73 | SideWindow cover plates, |
| | 5/case | 06-0400-52B | Part no 06-0400-52 (bulk), | | 2/case |
| 06-0200-20B | Part no 06-0200-20 (bulk), | | 5/case | 06-0700-82 | Extended head cover, head and |
| | 25/case | 06-0400-53 | Headband front part. | | neck. |
| 06-0200-30 | Inner cover plate for 9100XX/ | 06-0400-53B | Part no 06-0400-53 (bulk), | 06-0700-83 | Full hood, black/grey. |
| | 9100XXi filters, 5/case. Plate | | 5/case | 06-0700-85 | Air diffuser |
| | marking 117×77. | 06-0400-54 | Headband back part. | 26-0099-28 | Face seal |
| 06-0200-51 | Outer protection plate, | 06-0400-54B | Part no 06-0400-54 (bulk), | 26-0099-35SW | Welding helmet 9100 FX-Air |
| | 10/case. | | 5/case | | without welding filter, with |
| 06-0200-51B | Outer protection plate, | 06-0400-55 | Battery holder 9100, 2/case | | headband. |
| | 50/case. | 06-0400-55B | Part no 06-0400-55 (bulk), | 26-0400-55 | Duct assembly. |
| 06-0200-52 | Outer protection plate scratch | | 10/case. | SG-90 | Product storage bag. |
| | resistant, 10/case. | 06-0500-52 | Extended coverage, ear and | | |
| 06-0200-52B | Outer protection plate scratch | | neck. | | |
| | resistant, 50/case. | 06-0500-56 | Magnification plate 1.5x. | | |
| 06-0200-53 | Outer protection plate heat resistant, 10/case. | 06-0500-57 | Magnification plate 2.0x. | | |

3M™ Speedglas™ Welding Helmet 9100 MP Systems



Helmet with powered air systems - HE particulate filtration

| TIE particulate intration | | | |
|---------------------------|------------------------------|--|--|
| Part No [| Description | | |
| 37-1101-00SW | Without welding filter with | | |
| | Adflo PAPR and HE filter. | | |
| 37-1101-10SW | With Speedglas welding filte | | |
| | 9100V (1.8"x3.7") and Adflo | | |
| | PAPR with HE filter. | | |
| 37-1101-20SW | With Speedglas welding filte | | |
| | 9100X (2.1"x4.2") and Adflo | | |
| | PAPR with HE filter. | | |
| 37-1101-30iSW | With Speedglas welding filte | | |
| | 9100XXi (2.8"x4.2") and | | |
| | Adflo PAPR with HE filter. | | |
| 37-1101-00SWHA | Without welding filter with | | |
| | Adflo High Altitude PAPR | | |
| | with HE filter. | | |



| Helmet with supplied air systems | | | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------|--|--|
| Part No | Description | | |
| 37-5702-00SWSR | Without welding filter with Fresh-air III SAR, V-100 cooling valve and Shrader fitting. | | |
| 37-5702-00SW | Without welding filter, with Fresh-air III SAR, V-100 cooling valve. | | |
| 37-5702-30iSW | With Speedglas welding filter 9100XXi (2.8"x 4.2") and Fresh-air III SAR, V-100 cooling valve. Available in 2018. | | |



06-0000-30







06-0000-20

Alternative 3M™ Speedglas™ **Welding Filters**

| Description |
|----------------------------------------------------------------------|
| Auto-darkening filter 9100V, variable shade 5, 8, 9–13 (1.8"x3.7"). |
| Auto-darkening filter 9100X, variable shade 5, 8, 9–13 (2.1"x4.2"). |
| Auto-darkening filter 9100XX, variable shade 5, 8, 9–13 (2.8"x4.2"). |
| Auto-darkening filter 9100XXi variable shade 5, 8, 9–13 (2.8"x4.2"). |
| |

Spare parts & accessories for 3M™ Speedglas™ Welding Helmets 9100 MP



06-0700-64



06-0700-51

06-0700-54

2 2

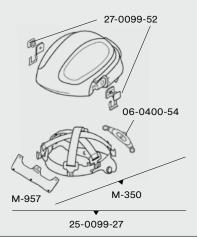
04-0400-55

27-0099-53

06-0700-73



27-0099-28



27-0099-35SW



06-0700-63





00

04-0320-00







06-0200-52

06-0200-53



06-0000-20

06-0000-30

06-0000-30i





06-0500-56 06-0200-20 06-0500-57 06-0200-30 06-0500-58 06-0500-59

Maintenance tips for 3M[™] Speedglas[™] Welding Helmet 9100 MP

Subscribe to our YouTube channel to learn more about product features and maintenance. A few examples:



Need to re-fresh the head protection on your 9100MP? See how to remove the hard hat.



See how to install the heatreflecting, silver-coated helmet cover.



Scan QR-code or use this URL: www.youtube. com/3MSpeedglas



Need higher attenuation for your hearing protection, or is it just time to replace the old ones? See a demo on how to assemble. the earmuffs in this video.

Part No Description Part No Part No Description Description M-350 Versaflo replacement head 06-0200-52B Outer protection plate scratch 06-0700-64 Wide-view clear grinding visor suspension. resistant, 50/case. frame, black M-957 Versaflo forehead comfort 06-0200-53 Outer protection plate heat 06-0700-73 SideWindow cover plates, resistant, 10/case. pad/sweat pad, 10/case. 2/case. M-985 06-0200-53B 27-0099-28 3M™ Peltor™ Farmuff Outer protection plate heat Face seal Welding helmet 9100 MP with Assembly Kit resistant, 50/case. 27-0099-35SW SG-90 Carry bag, black. 06-0202-10 Starter kit 9100V (for 9100 hard hat, without welding filter. 04-0320-00 MP), incl 5 outside protection 27-0099-52 Battery, 2/case. Pivot kit Welding filter 9100V. 06-0000-10 27-0099-53 plates, 2 inside protection Flip-up mechanism 06-0000-20 Welding filter 9100X. 27-0099-63 Inner shield plates, and 1 sweat pad Welding filter 9100XX. 06-0202-20 06-0000-30 Starter kit 9100X (for 9100 27-0099-68 Outer shield 06-0000-30i Welding filter 9100XXi. MP), incl 5 outside protection 27-0099-72 Hard hat incl pivot kit 06-0200-10 Inside protection plate 9100V, plates, 2 inside protection 27-0099-84 Radiant heat hard hat cover for 5/case plates, and 1 sweat pad 9100 MP helmet. 06-0200-10B Part no 06-0200-10 (bulk), 06-0202-30 Starter kit 9100XX (for 9100 27-0099-85 Throat and neck coverage. 25/case MP), incl 5 outside protection Not shown 06-0200-20 27-0099-87 Inside protection plate 9100X, plates, 2 inside protection Complete neck coverage for plates, and 1 sweat pad 9100MP 06-0200-20B Part no 06-0200-20 (bulk), 06-0400-54 Headband back part. 06-0400-54B Part no 06-0400-54 (bulk), 25/case 06-0200-30 Inner cover plate for 9100XX/ Battery holder 9100, 2/case 06-0400-55 9100XXi filters, 5/case. Plate marking 117×77. 06-0400-55B Part no 06-0400-55 (bulk), 06-0200-51 Outer protection plate, 10/case. 06-0700-51 10/case. Wide-view clear grinding visor, 06-0200-51B Outer protection plate, standard, 5/case 06-0700-54 Wide-view clear grinding visor, 50/case. 06-0200-52 Outer protection plate scratch anti-fog, 5/case. resistant, 10/case. 06-0700-63 Front panel, chrome.

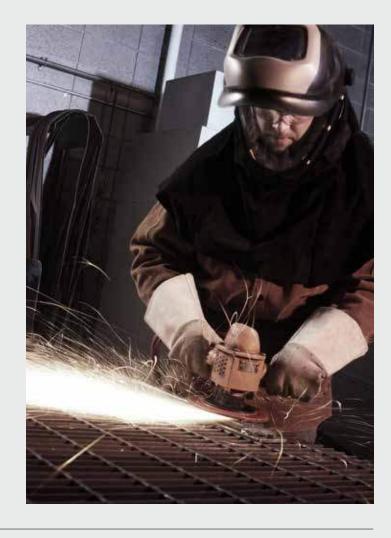
3M[™] Speedglas[™] Welding Helmet L-Series SG



Headgear with shroud L-905 SG - with powered air systems

| - with powered air systems | | |
|----------------------------|--------------------------------------------------------------------------------------------------------------|--|
| Part No | Description | |
| 34-0905-SGV | Helmet L-905SG wideview faceshield with Speedglas welding filter 9100V and Adflo PAPR with HE filter. | |
| 34-0905-SGX | Helmet L-905SG wideview faceshield with Speedglas welding filter 9100X and Adflo PAPR with HE filter. | |
| 34-0905-SGXX | Helmet L-905SG wideview faceshield with Speedglas welding filter 9100XX and Adflo PAPR with HE filter. | |

Spare parts see page 93.



3M[™] Protective Visor for respiratory protection

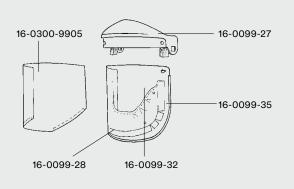


Spare parts

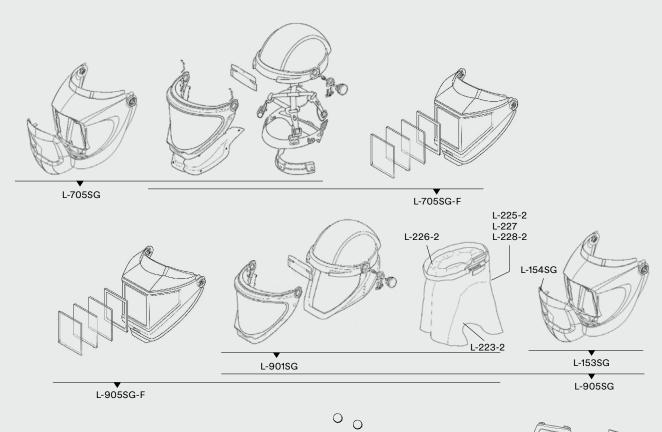
| Part No | Description |
|--------------|----------------------------------------------------------------|
| 07-0024-02 | Sweatband, fleece, 2/case |
| 16-0099-27 | Brow guard |
| 16-0099-28 | Face seal |
| 16-0099-29 | Faceseal and headband assembly with air duct. |
| 16-0099-30 | Headcover, FR cotton (not shown). |
| 16-0099-32 | Clear window with fasteners and face seal, without brow guard. |
| 16-0099-35 | ClearVisor polycarbonate |
| 16-0300-9905 | Clear window strip off shielding film, 5/case |







Spare parts & accessories for 3M™ Speedglas™ Headgear L-Series SG



04-0320-00

06-0200-51 06-0200-52 06-0200-53

6-0200-51

06-0000-10 06-0000-20 06-0200-10

06-0000-10 06-0200-10 06-0500-56 06-0000-20 06-0200-20 06-0500-57 06-0000-30 06-0200-30 06-0500-58 06-0000-30i 06-0500-59

| Part No | Description | Part No | Description | Part No | Description |
|-----------|--------------------------------|-------------|----------------------------------|-------------|--------------------------------|
| L-153SG | Welding helmet kit | L-905SG-F | Helmet with welding helmet | 06-0200-52 | Outer protection plate scratch |
| L-154SG | Silver front panel | | and wideview faceshield. | | resistant, 10/case. |
| L-199SG | Breathing tube cover, high | 04-0320-00 | Battery, 2/case. | 06-0200-52B | Outer protection plate scratch |
| | temperature. | 06-0000-10 | Welding filter 9100V. | | resistant, 50/case. |
| L-223-2 | Outer shroud standard. | 06-0000-20 | Welding filter 9100X. | 06-0200-53 | Outer protection plate heat |
| L-225-2 | Outer shroud, flame retardant. | 06-0000-30 | Welding filter 9100XX. | | resistant, 10/case. |
| L-226-2 | Inner shroud | 06-0000-30i | Welding filter 9100XXi. | 06-0200-53B | Outer protection plate heat |
| L-227 | Outer shroud, flame retardant, | 06-0200-10 | Inside protection plate 9100V, | | resistant, 50/case. |
| | leather | | 5/case | 06-0500-56 | Magnification plate 1.5x. |
| L-228-2 | Outer shroud, nylon | 06-0200-10B | Part no 06-0200-10 (bulk), | 06-0500-57 | Magnification plate 2.0x. |
| L-705SG | Hard hat with welding helmet | | 25/case | 06-0500-58 | Magnification plate 2.5x. |
| | and wideview faceshield, | 06-0200-20 | Inside protection plate 9100X, | 06-0500-59 | Magnification plate 3.0x. |
| | without welding filter. | | 5/case | | |
| L-705SG-F | Hard hat with welding helmet | 06-0200-20B | Part no 06-0200-20 (bulk), | | |
| | and wideview faceshield | | 25/case | | |
| L-901SG | Helmet with wideview | 06-0200-30 | Inner cover plate for 9100XX/ | | |
| | faceshield | | 9100XXi filters, 5/case. | | |
| L-905SG | Helmet with welding helmet | 06-0200-51 | Outer protection plate, 10/case. | | |
| | and wideview faceshield, | 06-0200-51B | Outer protection plate, 50/case. | | |
| | without welding filter. | | | | |

04-0400-55

Always read and follow all User Instructions.

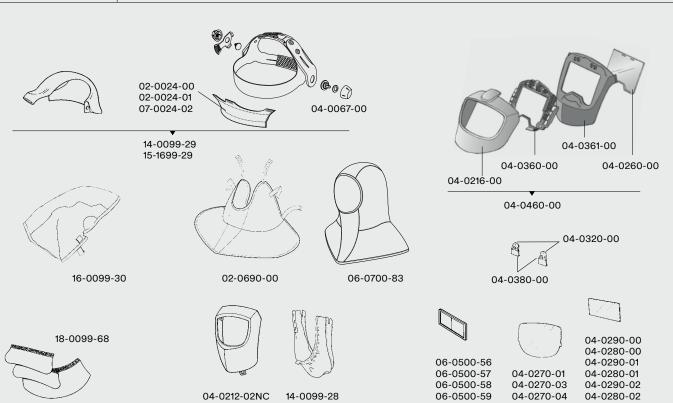
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3M[™] Speedglas[™] Welding Helmet 9000 HWR for respiratory protection



Spare parts & accessories



| Part No | Description | Part No | Description | Part No | Description |
|--------------|-----------------------------------|------------|---------------------------------------|------------|-------------------------------------|
| 02-0024-00 | Sweatband, cotton fleece with | 04-0280-00 | Inner cover plate (2.1"x4.1"), | 04-0460-00 | FlexView kit. |
| | padding. | | 5/case. Plate marking 42 02 10. | 06-0500-56 | Magnifying lens 1.5. |
| 02-0024-01 | Sweatband, leather. | 04-0280-01 | Inner cover plate (2.1"x4.1"), | 06-0500-57 | Magnifying lens 2.0. |
| 02-0690-00 | Neck protection. | | +1 Shade, 5/case. | 06-0500-58 | Magnifying lens 2.5. |
| 04-0067-00 | Assembly parts for headband. | 04-0280-02 | Inner cover plate (2.1"x4.1"), | 06-0500-59 | Magnifying lens 3.0. |
| 04-0212-02NG | Front cover. | | +2 Shade, 5/case. | 06-0700-83 | Hood. |
| 04-0216-00 | Heat-reflecting front cover | 04-0290-00 | Inner cover plate (1.7" x 3.6"), | 07-0024-02 | Sweatband, fleece, 2/case. |
| | FlexView, silver. | | 5/case. | 14-0099-28 | Face seal 9000 HWR. |
| 04-0260-00 | Protective visor plate FlexView, | | Plate marking 42 02 00. | 14-0099-29 | Headband assembly 9000 HWR, |
| | 10/case. | 04-0290-01 | Inner cover plate (1.7" x3.6"), | | with air duct. |
| 04-0270-01 | Outer protection plate, standard, | | +1 Shade, 5/case. | 15-1699-29 | Headband assembly FlexView |
| | 10/case. Plate marking 42 01 50. | 04-0290-02 | Inner cover plate (1.7" x3.6"), | | HWR, with air duct. |
| 04-0270-03 | Outer protection plate, scratch | | +2 Shade, 5/case. | 15-1699-28 | Face seal FlexView HWR. |
| | resistant, 10/case. Plate marking | 04-0320-00 | Battery CR 2032 Lithium 3V, | 16-0099-30 | Head protection. |
| | 42 01 00. | | 2/case. | 18-0099-68 | Ear and neck protection in leather. |
| 04-0270-04 | Outer protection plate, heat | 04-0360-00 | Holder for welding filter (FlexView). | | |
| | resistant, 10/case. | 04-0361-00 | Middle helmet FlexView, black. | | |
| | Plate marking 42 01 71. | 04-0380-00 | Battery cover, 2/case. | | |

3M[™] Hard Hat H-700

The 3M™ Speedglas™ Quick Release (QR) Rail allows you to attach a Speedglas welding helmet to many of the industry's most popular hard hats. 3M offers a complete QR welding helmet system including the

white, unvented 3M™ Hard Hat H-701. The hard hat is available in 6 colors when you buy it separately, see below.

Internal slots for accessory earmuffs.

Ventilated headband and ratchet suspension for improved comfort.

For Quick Release (QR) welding helmets we offer the unvented hard hat model (04-0023-02) for protection of sparks and radiation.

Certified to ANSI Z89.1-2009. Very low temperature (-30 C) Molten metal splash (MM) Electrical insulation (440 Vac)

Short brim and compact design for increased user mobility and visibility.



H-702R





H-706R



H-704R





H-703R



H-705





Always read and follow all User Instructions.

3M[™] Versaflo[™] M-Series Headtops

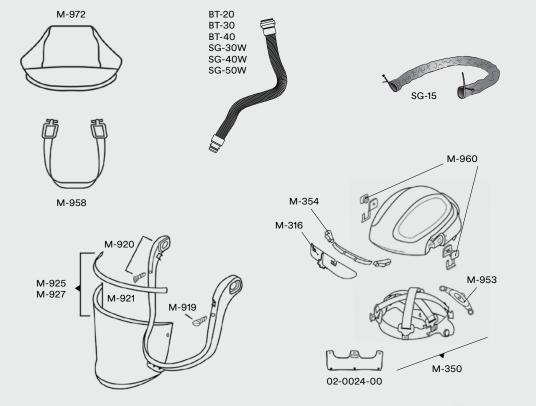




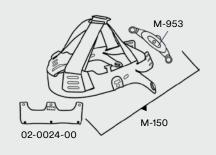


M-407

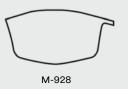
Spare parts & accessories















| Part No | Description | Part No | Description | Part No | Description |
|------------|---------------------------------------|---------|-----------------------------------|---------|--------------------------------------|
| 02-0024-00 | Sweatband, fleecy cotton, | M-350 | Head suspension (M-307). | M-960 | Pivot kit. |
| | 2/case. | M-354 | Forehead seal (M-307). | M-972 | Flame resistant headtop cover. |
| BT-20 | Breathing tube, polyurethane (in | M-407 | Helmet with shroud M-407. | M-976 | Head, neck and shoulder cover. |
| | two lengths), with QRS connection. | M-919 | Visor frame buttons. | SG-15 | Flame resistant breathing tube |
| BT-30 | Breathing tube, self-adjusting (20.7" | M-920 | Visor frame. | | cover (replaces 17-0099-54). |
| | to 33.5"), with QRS connection. | M-921 | Visor gasket. | SG-30W | Breathing tube, self-adjusting, with |
| BT-40 | Breathing tube, heavy-duty rubber, | M-925 | Visor standard (uncoated), molten | | QRS connection. |
| | with QRS connection. | | metal splash protection to EN166. | SG-40W | Breathing tube, heavy-duty, with |
| M-116 | Airflow deflector (M-107). | M-927 | Visor coated. | | QRS connection. |
| M-150 | Head suspension (M-107). | M-928 | Peel-off visor cover. | SG-50W | Breathing tube, sound-dampening, |
| M-154 | Forehead seal (M-107). | M-937 | Flame resistant faceseal. | | with QRS connection. |
| M-207 | Faceshield M-207 | M-953 | Ratchet. | M-985 | 3M™ Peltor™ Earmuff |
| M-307 | Helmet M-307 | M-956 | Ratchet comfort pad. | | Assembly Kit |
| M-316 | Airflow deflector (M-307). | M-958 | Chin strap. | | , |





Product index

| Part No | Page |
|--------------|-----------------------------------------|
| 100003 | 78 |
| 101121 | 78 |
| 101185 | 78 |
| 126000 | 78 |
| 165005 | 78 |
| 166000 | 78 |
| 167410 | 78 |
| 847720 | 96 |
| 857720 | 96 |
| 02-0024-00 | 74–75, 77, 79, 94, 96 |
| 02-0024-01 | 74–75, 77, 79, 94 |
| 02-0690-00 | 74–75, 77, 79, 94 |
| 04-0000-21NC | 74 |
| 04-0023-02 | 69, 71, 74, 95 |
| 04-0023-021 | 71, 73, 77 |
| 04-0067-00 | 94 |
| 04-0112-00NC | 74, 79 |
| 04-0212-02NC | 74, 79, 94 |
| 04-0216-00 | 79, 94 |
| 04-0260-00 | 79, 94 |
| 04-0270-01 | 67, 74, 79, 94 |
| 04-0270-03 | 67, 74, 79, 94 |
| 04-0270-04 | 67, 74, 79, 94 |
| 04-0280-00 | 67, 74, 79, 94 |
| 04-0280-01 | 67, 74, 79, 94 |
| 04-0280-02 | 67, 74, 79, 94 |
| 04-0290-00 | 67, 75, 77–79, 94 |
| 04-0290-01 | 77, 79, 94 |
| 04-0290-02 | 77, 79, 94 |
| 04-0320-00 | 69, 71, 73–75, 77–79, 87, 89, 91, 93–94 |
| 04-0360-00 | 79,94 |
| 04-0361-00 | 79, 94 |
| 04-0380-00 | 74, 79, 94 |
| 04-0400-55 | 69, 71, 73, 87, 89, 91, 93 |
| 04-0460-00 | 79, 94 |
| 04-0550-00 | 79 |
| 05-0000-41 | 75 |
| 05-0013-00 | 75 |
| 05-0013-41 | 75 |
| 05-0250-00 | 67, 75 |
| 05-0250-01 | 67,75 |
| 05-0370-00 | 75, 77–78 |
| 05-0655-00 | 74–75, 77, 79 |
| 05-0660-00 | 74–75, 77, 79 |
| 05-0680-00 | 75 |
| | 7.5 |

| B . N | |
|-----------------|--------------------------------|
| Part No | Page |
| 05-0695-00 | 75 |
| 06-0000-10 | 68–73, 86–91, 93 |
| 06-0000-20 | 68–73, 86–91, 93 |
| 06-0000-30 | 68–73, 86–91, 93 |
| 06-0000-30i | 68–73, 86–91, 93 |
| 06-000030iKIT | 87 |
| 06-0000-30i-KIT | 68-69, 73, 87 |
| 06-0000-P11 | 71 |
| 06-0014-00NR | 29, 69 |
| 06-0014-00QR | 73,77 |
| 06-0100-10QR | 72 |
| 06-0100-10SW | 68 |
| 06-0100-20QR | 72 |
| 06-0100-20SW | 68 |
| 06-0100-30iSW | 68 |
| 06-0100-30QR | 72 |
| 06-0100-30SW | 68 |
| 06-0114-00QR | 73, 77 |
| 06-0116-00QR | 73, 77 |
| 06-0118-00QR | 72–73 |
| 06-0119-00QR | 72–73 |
| 06-0200-10 | 67, 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-10B | 87, 89, 91, 93 |
| 06-0200-20 | 67, 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-20B | 87, 89, 91, 93 |
| 06-0200-30 | 67, 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-30B | 87 |
| 06-0200-51 | 67, 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-51B | 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-52 | 67, 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-52B | 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-53 | 67, 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-53B | 69, 71, 73, 87, 89, 91, 93 |
| 06-0200-54 | 69, 71, 87, 89 |
| 06-0200-54B | 87, 89 |
| 06-0202-10 | 91 |
| 06-0202-20 | 91 |
| 06-0202-30 | 91 |
| 06-0300-51 | 68-69 |
| 06-0300-51SW | 68–69 |
| 06-0300-52 | 69 |
| 06-0300-52QR | 73 |
| 06-0300-52SW | 69 |
| 06-0300-54QR | 72–73 |
| 06-0300-55 | 69, 73, 87 |

Product index

| Part No | Page |
|------------------------------|------------------------------------------|
| 06-0300-55i | 69, 73, 87 |
| 06-0400-51 | 69, 71, 87, 89 |
| 06-0400-51B | 87, 89 |
| 06-0400-52 | 69, 71, 87, 89 |
| 06-0400-52B | 87, 89 |
| 06-0400-53 | 69, 71, 87, 89 |
| 06-0400-53B | 87, 89 |
| 06-0400-54 | 69, 71, 87, 89, 91 |
| 06-0400-54B | 87, 89, 91 |
| 06-0400-55 | 87, 89, 91 |
| 06-0400-55B | 87, 89, 91 |
| 06-0500-51 | 69, 87 |
| 06-0500-52 | 69, 71, 87, 89 |
| 06-0500-53 | 87 |
| 06-0500-56 | 69, 71, 73–75, 77, 79, 87, 89, 91, 93–94 |
| 06-0500-57 | 69, 71, 73–75, 77, 79, 87, 89, 91, 93–94 |
| 06-0500-58 | 69, 71, 73–75, 77, 79, 87, 89, 91, 93–94 |
| 06-0500-59 | 69, 71, 73–75, 77, 79, 87, 89, 91, 93–94 |
| 06-0500-65 | 83 |
| 06-0600-00SW | 70-71 |
| 06-0600-10SW | 70 |
| 06-0600-20SW | 70 |
| 06-0600-30SW | 70 |
| 06-0614-00NR | 70-71 |
| 06-0700-51 | 89, 91 |
| 06-0700-54 | 71, 89, 91 |
| 06-0700-63 | 71, 89, 91 |
| 06-0700-64 | 71, 89, 91 |
| 06-0700-72SW | 71 |
| 06-0700-73 | 71, 89, 91 |
| 06-0700-81 | 71, 89 |
| 06-0700-82 | 71, 89 |
| 06-0700-83 | 69, 71, 74–75, 77, 79, 87, 89, 94 |
| 06-0700-85 | 89 |
| 07-0001-10 | 76–77 |
| 07-0001-11 | 76–77 |
| 07-0001-31 | 76–77 |
| 07-0012-00BL | 76–77 |
| 07-0012-31BL | 76 |
| 07-0012-31BLQR | 76 |
| 07-0012-31BZ | 76 |
| 07-0012-31SR | 76 |
| | |
| 07-0012-31TB | 76 |
| 07-0012-31TB 07-0012-31TW | 76 76 |

| Part No | Page |
|----------------|-----------------------|
| 07-0024-02 | 74–75, 77, 79, 92, 94 |
| 07-0112-00BLQR | 77 |
| 07-0114-00BLQR | 76–77 |
| 07-0200-51 | 67,77 |
| 07-0200-52 | 67,77 |
| 07-0200-53 | 67,77 |
| 07-0212-00SV | 77 |
| 07-0680-00 | 77 |
| 14-0099-28 | 94 |
| 14-0099-29 | 94 |
| 15-0009-9902 | 83 |
| 15-0099-05 | 83 |
| 15-0099-06 | 83 |
| 15-0099-08 | 83 |
| 15-0099-10 | 83 |
| 15-0099-11 | 83 |
| 15-0099-12 | 83 |
| 15-0099-16 | 83 |
| 15-0099-20 | 83 |
| 15-0099-21 | 83 |
| 15-0099-9906 | 83 |
| 15-0099-9912 | 83 |
| 15-0299-9902 | 83 |
| 15-0299-9906 | 83 |
| 15-0299-9936 | 83 |
| 15-0499-9902 | 83 |
| 15-0499-9906 | 83 |
| 15-1101-99 | 83 |
| 15-1699-28 | 94 |
| 15-1699-29 | 94 |
| 16-0099-27 | 92 |
| 16-0099-28 | 92 |
| 16-0099-29 | 92 |
| 16-0099-30 | 74, 77, 79, 92, 94 |
| 16-0099-32 | 92 |
| 16-0099-35 | 92 |
| 16-0300-9905 | 92 |
| 18-0099-68 | 73–75, 77–79, 94 |
| 19-0099-63 | 85 |
| 25-0099-28 | 87 |
| 25-0099-35SW | 87 |
| 25-0400-55 | 87 |
| 25-5702-00SW | 86 |
| 25-5702-30iSW | 86 |
| 256-02-00 | 84–85 |

. . . .

Product index

| Part No | Page |
|----------------|--------|
| 256-02-01 | 85 |
| 26-0099-28 | 89 |
| 26-0099-35SW | 89 |
| 26-0400-55 | 89 |
| 26-5702-00SW | 88 |
| 26-5702-30iSW | 88 |
| 27-0099-28 | 91 |
| 27-0099-35SW | 91 |
| 27-0099-52 | 91 |
| 27-0099-53 | 91 |
| 27-0099-63 | 91 |
| 27-0099-68 | 91 |
| 27-0099-72 | 91 |
| 27-0099-84 | 91 |
| 27-0099-85 | 91 |
| 27-0099-87 | 91 |
| 34-0905-SGV | 92 |
| 34-0905-SGX | 92 |
| 34-0905-SGXX | 92 |
| 34-5401-02SG | 82–83 |
| 35-0099-08 | 83 |
| 35-0099-08N6 | 80, 83 |
| 35-0099-14 | 83 |
| 35-0699-9901 | 83 |
| 35-1099-01 | 83 |
| 35-1099-07 | 83 |
| 35-1099-81 | 83 |
| 35-1101-00SW | 81, 86 |
| 35-1101-10SW | 81, 86 |
| 35-1101-20SW | 81, 86 |
| 35-1101-30iSW | 81, 86 |
| 35-3499-01 | 82 |
| 35-5401-01 | 82–83 |
| 35-5401-01* | 82–83 |
| 36-1101-00SW | 81, 88 |
| 36-1101-00SWHA | 88 |
| 36-1101-10SW | 81, 88 |
| 36-1101-20SW | 81, 88 |
| 36-1101-30iSW | 81, 88 |
| 37-1101-00SW | 81, 90 |
| 37-1101-00SWHA | 90 |
| 37-1101-10SW | 81, 90 |
| 37-1101-20SW | 81, 90 |
| 37-1101-30iSW | 81, 90 |
| 37-5702-00SWSR | 90 |

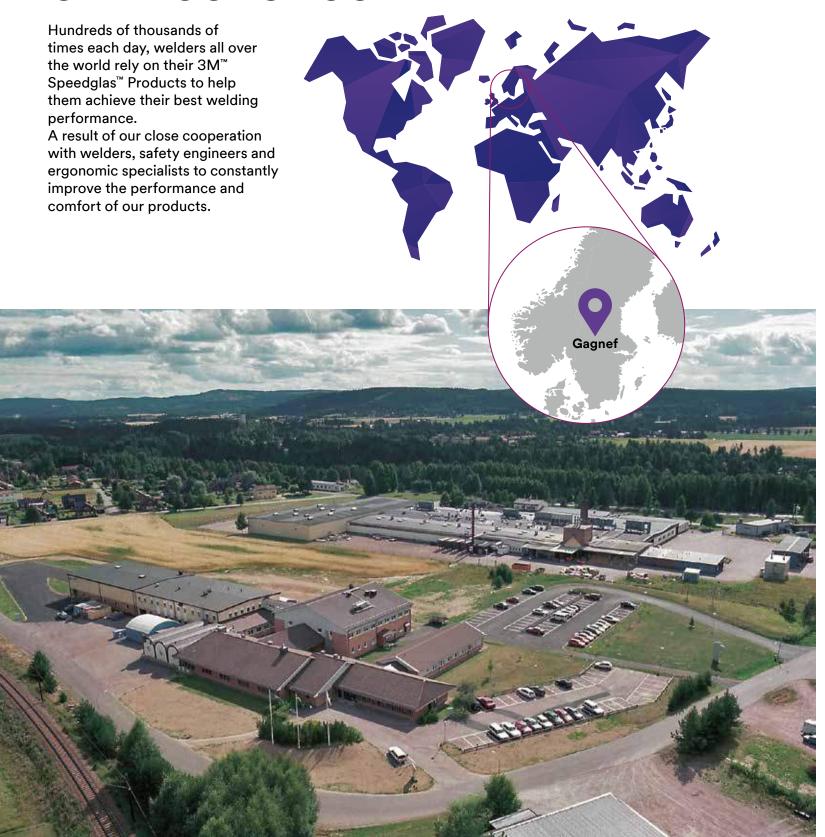
| Part No | Page |
|-----------|-----------|
| 529-04-48 | 85 |
| 529-04-49 | 85 |
| 529-04-50 | 85 |
| 529-05-20 | 85 |
| BPK-01 | 83 |
| BT-20 | 96 |
| BT-30 | 96 |
| BT-40 | 96 |
| L-122SG | 82–83, 85 |
| L-153SG | 93 |
| L-154SG | 93 |
| L-199SG | 93 |
| L-223-2 | 93 |
| L-225-2 | 93 |
| L-226-2 | 93 |
| L-227 | 93 |
| L-228-2 | 93 |
| L-705SG | 93 |
| L-705SG-F | 93 |
| L-901SG | 93 |
| L-905SG | 92–93 |
| L-905SG-F | 93 |
| M-116 | 96 |
| M-150 | 96 |
| M-154 | 96 |
| M-207 | 80,96 |
| M-307 | 80,96 |
| M-316 | 96 |
| M-350 | 91, 96 |
| M-354 | 96 |
| M-407 | 80,96 |
| M-919 | 96 |
| M-920 | 96 |
| M-921 | 96 |
| M-925 | 96 |
| M-927 | 96 |
| M-928 | 96 |
| M-937 | 96 |
| M-953 | 96 |
| M-956 | 96 |
| M-957 | 91 |
| M-958 | 91, 96 |
| M-960 | 96 |
| M-972 | 96 |
| M-976 | 96 |

Product index

| Part No | Page |
|------------|-------------------|
| M-985 | 91, 96 |
| SG-15 | 83, 85, 96 |
| SG-30W | 83, 85, 96 |
| SG-40W | 83, 85, 96 |
| SG-50W | 83, 85, 96 |
| SG-90 | 83, 87, 89, 91 |
| V-100 | 80, 84–86, 88, 90 |
| V-111 | 85 |
| V-115 | 85 |
| W-1449-2 | 85 |
| V-150 | 84-85 |
| W-1596 | 85 |
| V-199 | 85 |
| V-200 | 80, 84–85 |
| V-211 | 85 |
| W-2119 | 85 |
| V-215 | 85 |
| V-250 | 84-85 |
| W-2806 | 84–85 |
| W-2808 | 84-85 |
| W-2811-10 | 85 |
| W-2915M | 85 |
| W-2916 | 85 |
| W-2920 | 85 |
| W-2921 | 85 |
| W-2923 | 85 |
| W-2924 | 85 |
| W-2925 | 85 |
| W-2929-100 | 84-85 |
| W-2929-25 | 84-85 |
| W-2929-50 | 84-85 |
| W-2963 | 84-85 |
| V-300 | 80, 84, 90 |
| W-3012 | 85 |
| W-3013-4 | 85 |
| W-3079 | 85 |
| W-3094M | 85 |
| W-3095 | 85 |
| W-3096 | 85 |
| W-3098 | 85 |
| W-3099 | 85 |
| W-3182-2 | 85 |
| W-3281-2 | 85 |
| W-9425-25 | 84 |
| W-9435-100 | 84-85 |

| Part No | Page |
|-----------|-------|
| W-9435-25 | 85 |
| W-9435-50 | 84–85 |
| X1P5E | 73 |
| X2P5E | 73 |
| X3P5E | 73 |
| X4P5E | 73 |
| X5P5E | 73 |

3M Welding Center of Excellence



35

More than 35 years ago we turned the world of welding on its head by introducing the autodarkening welding filter.



The Welding Lab in Gagnef has currently 25 employees and our business goal is that 3M should become the No 1 supplier of welding PPE to help improve productivity and customers' profitability.

12

International Design Awards since 1996

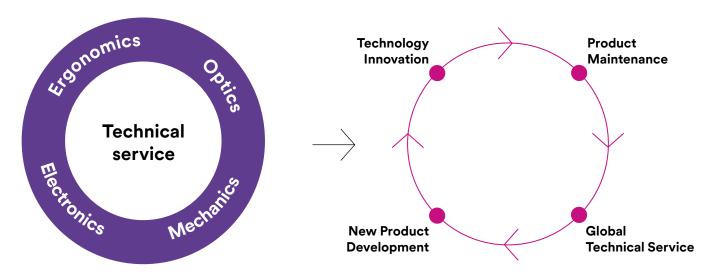


8

3M Program Awards:Circle of Technical Excellence & Innovation x3
Golden Step Award x3

Ace Award x3

3M Welding Lab Gagnef—Expert Areas





Helmet selection guide

Which welding helmet?

Your personal guidance to 3M[™] Speedglas[™] Welding Helmets. Answer 10 questions on your mobile device to find welding helmets that may be well suited for your specific applications.



The selector geotarget your location, see the available country versions listed below:



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These products meet the requirements of certain industrial eyewear standards and with some models certain industrial head protection standards. They do not provide complete head, eye and face protection from severe impact and penetration and are not a substitute for good safety practices and engineering controls.

Misuse may result in serious injury or death. For correct use, see supervisor and User Instructions, or call 3M PSD Technical Service.

A WARNING

Head and Face Protection Products:

This product is designed to help protect the wearer's eyes and face from harmful radiation including visible light, ultra-violet radiation (UV), infra-red radiation (IR), sparks and spatter resulting from welding processes. These products must be used only by qualified persons who are properly trained in their use and maintenance. Misuse may result in permanent eye injury and vision loss. Always wear ANSI Z87.1 compliant safety spectacles in addition to any welding helmet. For correct use, see supervisor and User Instructions, or call 3M PSD Technical Service in U.S.A at 1-800-243-4630 and in Canada at 1-800-267-4414.



A WARNING

Respiratory Protection Products:

These respirators help protect against certain airborne contaminants. Before use, the wearer must read and understand the User Instructions provided as a part of the product packaging. A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Improper use may result in injury, illness or death. For correct use, see supervisor or User Instructions, or call 3M PSD Technical Service in USA at 1-800-263-4630 and in Canada at 1-800-267-4414.

A WARNING

Fall Protection Products:

Compliant fall protection and emergency rescue systems help prevent serious injuries associated with fall events. Users must read and understand the User Instructions provided with the product, and must be properly trained by their employers in the safe use of these systems before using them, per OSHA 1910.66 and 1926.503 or applicable local standards. **Misuse or failure to follow warnings and instructions may result in serious personal injury or death.** For proper use, see supervisor, User Instructions, or call 800-328-6146 (Opt. 1).

A WARNING

Hearing Protection Products*

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For proper use, see supervisor, User Instructions, or call 3M™ PSD Technical Service in the USA at 800-243-4630. If there is any drainage from your ear or you have an ear infection, consult with your physician before wearing earplugs. **Failure to do so may result in hearing loss or injury.**

A WARNING

Noise Reduction Rating (NRR):

*3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to variation in hearing protector fit, fitting skill and motivation of the user. If the NRR is used to estimate typical workplace protection, 3M recommends that the NRR be reduced by 50% or in accordance with applicable regulations.

Ongoing customer support

To help keep your equipment working as it should, and to ensure you get the most from your investment, our support team at 3M is able to offer assistance on several levels:

Care & Maintenance Posters

Guidance on the appropriate maintenance checks is provided in the user instructions supplied with all new equipment. Our Care & Maintenance Posters make this information available on a day-to-day basis and are a strong and visual reminder.

Welding Specialists

Based across the country and supporting 3M distributor network, our welding specialists have a sound understanding of national health and safety laws coupled with years of experience in welding safety.

Helpline

Call 1-800-243-4630 (USA) or 1-800-267-4414 (Canada) for any technical queries. For other countries please find your local contact information at www.3M.com.

■ @3M_US_Safety

All the support material featured on this page can be downloaded and printed. Just visit: www.3M.com/Speedglas



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youtube.com/3MSpeedglas



3M Personal Safety Division 3M Center, Building 235-2W-70 St. Paul, MN 55144-1000

3M Canada Company PSD P.O Box 5757 London, Ontario N6A 4TI, Canada

For more information

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