

3M™ Speedglas™ Welding Helmet Series 100  
Enhanced welding performance

 **Speedglas™**



# Enhanced Tools to get the Job Done

The Power to Protect Your World<sup>SM</sup>





Premium Made  
Affordable

# Performance made Simple

Speedglas welding helmet series 100 allows you to take advantage of excellent optical quality and reliable light-to-dark switching at an affordable price.

Additionally, these helmets' affordable price and ease of use ensures that their superior quality and expressive style are accessible to even the most occasional welders.



New headband with smooth ratchet for precise tightening.

Meets the requirements of CSA Z94.3 and the high impact requirements of ANSI Z87.1-2010.

The Speedglas welding helmet series 100 is compatible with most 3M™ Disposable Particulate Respirators.



Magnification made easy. With holders for magnifying lens inside the helmet, attaching the lens is easier and the fit is more accurate.

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

Appropriate for most arc welding processes, including Stick, MIG, and higher amp TIG welding.

## 3M™ Speedglas™ Welding Filter 100V (variable dark shade)

The Speedglas welding filter 100V features five adjustable dark shades 8-12 and a light shade of 3. Possible to lock-in the light state, e.g. when grinding. New Delay function allows you to set the dark-to-light opening time. In addition, there are three sensitivity settings.



Technical Specification	3M™ Speedglas™ Welding Filter 100V
Rated for	MIG, Stick, TIG >20 amps
Switching time, light-dark	Approximate 0.1 ms @ 73°F (23°C)
Switching time, dark-light	Approximate 40 - 250 ms
UV / IR protection	Shade 12 (permanent)
Viewing area	Approximate 3.66 x 1.73 in (93 x 44 mm)
Light state	Shade 3
Dark state	Shade 8–12 (variable)
Battery lifetime	Approximate 1500 hours

# 3M™ Speedglas™ Graphic Welding Helmet Series 100

Speedglas welding helmet series 100 delivers impressive protection and performance with distinctive graphic designs – all with a specific identity.

Styles are refreshed often, contact your 3M representative to learn about the latest styles.



**Boneyard**



**Ice Hot**



**Xterminator**



**Razor Dragon**



**Raging Skull**



**Trojan Warrior**



**Blazed**



**Aces High**



**American Pride**



**Future Combatant**



**Tribute**

## Female Graphic Edition

Inspired by women welders, 3M launched the first line of women specific designs. Our design team took direct inspiration from women welders to work with intricate patterns and graphics. The resulting designs are an avenue for personal expression.



**Steel Rose**

Toughness and patinated grace. Strong, fearless, and feminine at the same time. Steel aesthetics emphasize the protective qualities of the helmet.

Designed by Ergonomidesign (IFP)



**Wild-N-Pink**

Pretty in pink, but do not touch! A vivacious vine flourishes behind a protective overlay of barbed wire and razor-sharp metal sculpture. Admire from a distance.



**Skull Jewels**

An elaborate floral grill motif emerges into a decorative skull and covers the entire helmet. The skull and flowers engage in visual interplay as one becomes the other, and vice-versa.

Designed by Ergonomidesign (IFP)



**Steel Eyes**

Projecting inner strength, with focused eyes looking through a blaze of lilac flames.

Designed by Ergonomidesign (IFP)

## Ordering Information

Product Description	Part No	3M ID No	UPC
<b>3M™ Speedglas™ Welding Helmet 100 with 3M™ Speedglas™ Welding Filter 100V (variable dark shade 8-12)</b>			
Speedglas welding helmet 100 Aces High	07-0012-31AH	70-0715-3377-5	00051131372375
Speedglas welding helmet 100 American Pride	07-0012-31AP	70-0715-3408-8	00051131372382
Speedglas welding helmet 100 Black	07-0012-31BL	70-0715-3372-6	00051131372320
Speedglas welding helmet 100 Boneyard	07-0012-31BY	70-0716-1775-0	00051131499508
Speedglas welding helmet 100 Blazed	07-0012-31BZ	70-0715-3373-4	00051131372337
Speedglas welding helmet 100 Future Combatant	07-0012-31FC	70-0716-2294-1	00051141560779
Speedglas welding helmet 100 Ice Hot	07-0012-31IH	70-0716-1777-6	00051131499522
Speedglas welding helmet 100 Razor Dragon	07-0012-31RD	70-0716-1779-2	00051131499546
Speedglas welding helmet 100 Raging Skull	07-0012-31RS	70-0716-1781-8	00051131499560
Speedglas welding helmet 100 Steel Eyes	07-0012-31SE	70-0715-6474-7	00051131372269
Speedglas welding helmet 100 Skull Jewels	07-0012-31SJ	70-0715-6476-2	00051131372276
Speedglas welding helmet 100 Steel Rose	07-0012-31SR	70-0715-6478-8	00051131372283
Speedglas welding helmet 100 Tribute	07-0012-31TB	70-0716-2293-3	00051141560762
Speedglas welding helmet 100 Trojan Warrior	07-0012-31TW	70-0715-3378-3	00051131372290
Speedglas welding helmet 100 Wild-N-Pink	07-0012-31WP	70-0715-6472-1	00051131372290
Speedglas welding helmet 100 Xterminator	07-0012-31XT	70-0716-1783-4	00051131499584
Speedglas welding helmet 100 Black, with Hard Hat	07-0012-31BL-HH	70-0715-6464-8	00051131495302
<b>3M™ Speedglas™ Welding Helmet 100 with 3M™ Speedglas™ Welding Filter 100S (single dark shade)</b>			
Speedglas welding helmet 100 Black with 100S-10 welding filter (shade 10)	07-0012-10BL	70-0715-3370-0	00051131372306
Speedglas welding helmet 100 Black with 100S-11 welding filter (shade 11)	07-0012-11BL	70-0715-3371-8	00051131372313



## Hard Hat Option

Welders working in areas with overhead hazards can now benefit from the hard hat option for 3M™ Speedglas™ Welding Helmet Series 100.

The 3M™ Hard Hat H-701R has a comfortable 4-point ratchet suspension and standard brow pad. Hard hat features accessory slots for earmuff attachment and/or headgear and faceshield attachment.

Meets requirements of ANSI/ISEA Z89.1-2009 Type 1, Class C, G, and E standards, as well as CSA Z94.1 Type 1, Class C, G, and E standards.



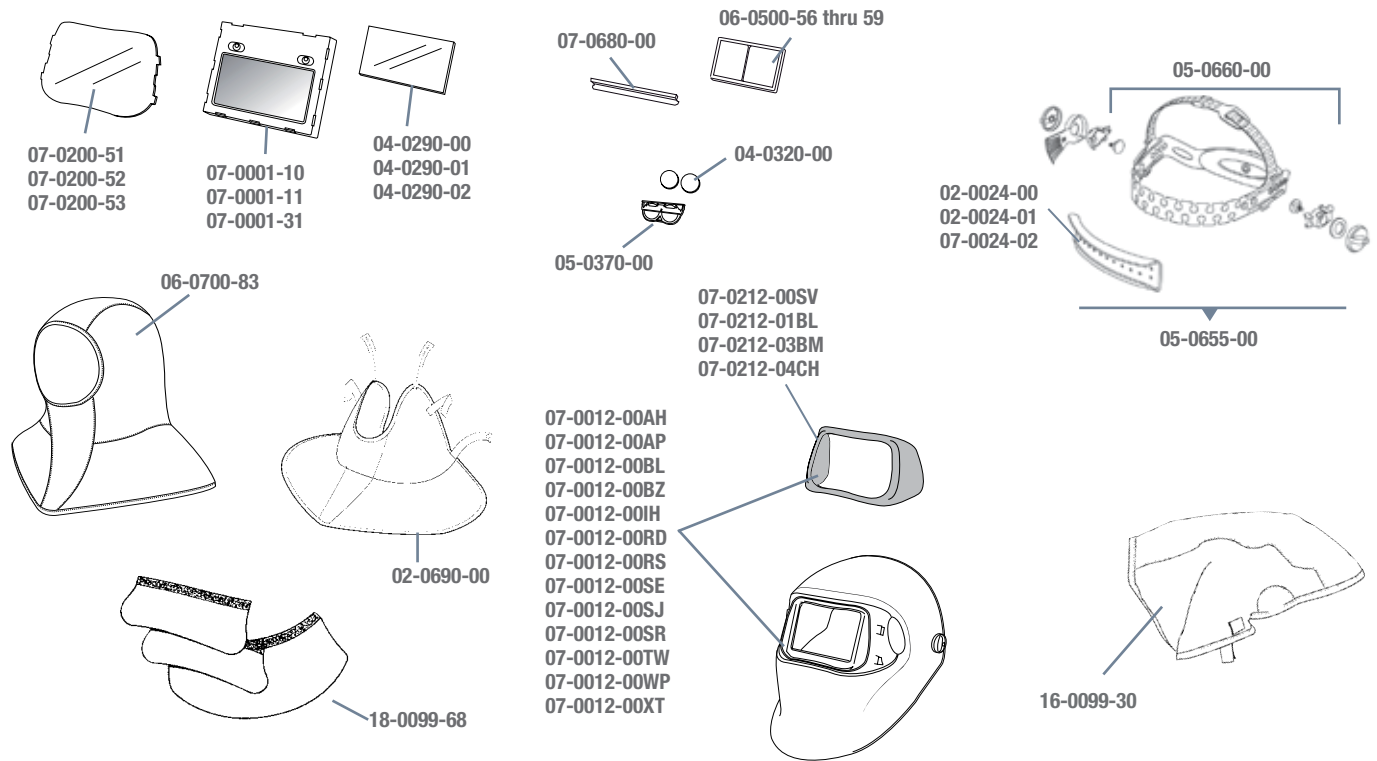
## 3M™ Speedglas™ Welding Filter 100S (single shade 10 or 11)

The Speedglas welding filters 100S-10 and 100S-11 are only available in the black helmet design. Welders can choose from single dark shades of 10 or 11, respectively. Both with a light shade of 3.



Technical Specification	3M™ Speedglas™ Welding Filter 100S-10	3M™ Speedglas™ Welding Filter 100S-11
Rated for	MIG, Stick, limited TIG	MIG, Stick, limited TIG
Switching time, light-dark	Approximate 0.1 ms @ 73°F (23°C)	Approximate 0.1 ms @ 73°F (23°C)
Switching time, dark-light	Approximate 150 ms	Approximate 200 ms
UV / IR protection	Shade 12 (permanent)	Shade 12 (permanent)
Viewing area	Approximate 3.66 x 1.73 in (93 x 44 mm)	Approximate 3.66 x 1.73 in (93 x 44 mm)
Light state	Shade 3	Shade 3
Dark state	Shade 10 (single)	Shade 11 (single)
Battery lifetime	Approximate 1500 hours	Approximate 1500 hours

# 3M™ Speedglas™ Welding Helmet Series 100



## Accessories and Consumables

Part No	Description	Part No	Description	Part No	Description
02-0024-00	Sweatband, cotton fleece with padding	07-0012-00AH	Welding helmet Aces High, without filter, without headband.	07-0012-00WP	Welding helmet Wild-N-Pink, without filter, without headband.
02-0024-01	Sweatband, leather.	07-0012-00AP	Welding helmet American Pride, without filter, without headband.	07-0012-00XT	Welding helmet Xterminator, without filter, without headband.
02-0690-00	Throat protection, black/grey.	07-0012-00BL	Welding helmet black, without welding filter, without headband.	07-0024-02	Sweatband, fleece, 2/case.
04-0290-00	Inside protection plate, 5/case.	07-0012-00BY	Welding helmet Boneyard, without welding filter, without headband.	07-0200-51	Outside protection plate, standard, 10/case
04-0290-01	Inside protection plate, +1 shade, 5/case.	07-0012-00BZ	Welding helmet Blazed, without welding filter, without headband.	07-0200-52	Outside protection plate, scratch resistant, 10/case.
04-0290-02	Inside protection plate, +2 shade, 5/case.	07-0012-00IH	Welding helmet Ice Hot without welding filter, without headband.	07-0200-53	Outside protection plate, high temperature, 10/case.
04-0320-00	Battery, 2/case.	07-0012-00RD	Welding helmet Razor Dragon, without filter, without headband.	07-0212-00SV	Silver front frame 100
05-0370-00	Battery cover.	07-0012-00RS	Welding helmet Raging Skull, without filter, without headband.	07-0212-01BL	Black front frame 100, glossy
05-0655-00	Comfort headband with assembly parts.	07-0012-00SE	Welding helmet Steel Eyes, without filter, without headband.	07-0212-03BM	Black front frame 100, matte
05-0660-00	Assembly parts for headband.	07-0012-00SJ	Welding helmet Skull Jewels, without filter, without headband.	07-0212-04CH	Chrome front frame 100
06-0500-56	Magnification plate 1.5x.	07-0012-00SR	Welding helmet Steel Rose, without filter, without headband.	07-0680-00	Holder for magnifier, 2/case
06-0500-57	Magnification plate 2.0x.	07-0012-00TW	Welding helmet Trojan Warrior, without filter, without headband.	16-0099-30	Headcover, FR cotton
06-0500-58	Magnification plate 2.5x.			18-0099-68	Throat and side protector, leather.
06-0500-59	Magnification plate 3.0x.				
06-0700-83	Full hood, black/grey				
07-0001-10	Speedglas welding filter 100S-10, shade 10.				
07-0001-11	Speedglas welding filter 100S-11, shade 11.				
07-0001-31	Speedglas welding filter 100V, shade 8-12.				

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

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



VISIT THE WORLD OF THE WELDER AT [WWW.SPEEDGLAS.COM](http://WWW.SPEEDGLAS.COM)

## ⚠WARNING

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 proper use, see supervisor, or User Instructions or call 3M Technical Service in U.S.A at 1-800-243-4630 and in Canada at 1-800-267-4414.

### For More Information

Technical Assistance in US 1-800-243-4630

Technical Assistance in Canada 1-800-267-4414

 Find us on Facebook: [facebook.com/Speedglas](https://facebook.com/Speedglas)

# 3M

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