

NEW PRODUCT LAUNCHED!



 **Speedglas™**
Welding Safety

3M™ Speedglas™ Welding Helmets Non-Respiratory



Speedglas™

Welding Safety

Why 3M™ Speedglas™?

The #1 brand in welders' PPE

Trust in a brand can't be built overnight. It takes years to become known and even longer to be trusted. In 1981, over 40 years ago, Speedglas™ released the first ever auto-darkening welding helmet and has consistently set the benchmark ever since.

While other products and brands have come and gone, the 3M™ Speedglas™ brand, guided by welders, has continued to drive innovation and lead from the front.

Made in Sweden, Speedglas is the brand of choice for professional welders and remains the world's leading brand of personal protective equipment for welders.

View the range of 3M™ Speedglas™ non-respiratory welding helmets below.



NEW

3M™ Speedglas™ Welding Helmet G5-03 Pro

- NEW TAP Technology: Tap to access weld, cut, and grind settings
- Shade 5 SideWindows enhance peripheral vision
- Optional task light and Bluetooth® connectivity
- Configurable extra head and neck coverage
- Choose between G5-03VC, G5-03TW, and G5-03NC lens

G5-03VC Shades 3/5, 8-14



G5-03TW Shades 2.5/5, 8-13



G5-03NC Shades 3/5, 8-12



Shade range

G5-03VC: Shades 3/5, 8-14

G5-03TW: Shades 2.5/5, 8-13

G5-03NC: Shades 3/5, 8-12

Viewing area

G5-03VC/TW: 71 x 108mm

G5-03NC: 55 x 107mm

Page Number

Page 4-5



NEW 3M™ Speedglas™ Welding Helmet G5-03E

- Signature Speedglas optical quality
- Slim, lightweight profile
- Grind and cut mode
- Optional task light

G5-03NC Shades 3/5, 8-12



Shade range

3/5, 8-12

Viewing area

55 x 107mm

Page Number

Page 6-7



3M™ Speedglas™ Welding Helmet G5-02

- World's first curved auto-darkening welding lens
- Largest ever Speedglas viewing area (100% wider field of view)
- Shade 2.5 light state
- Slimmer lightweight profile
- Optimised for professional TIG welding

G5-02 Shades 2.5/8-12



Shade range

2.5/8-12

Viewing area

76 x 150mm

Page Number

Page 8-9



Technical Data Information

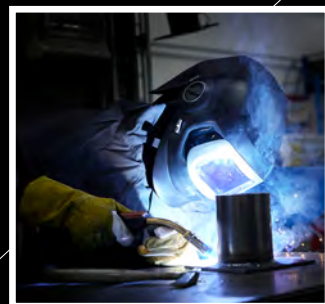
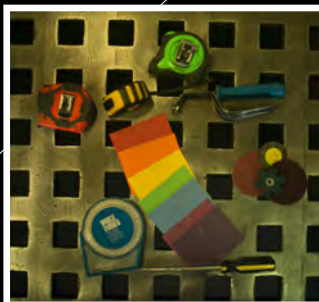
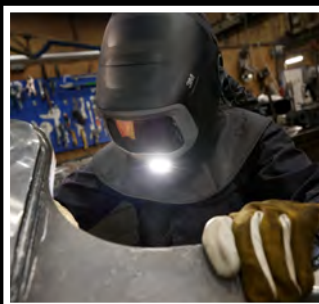
Compare the 3M™ Speedglas™ Non-Respiratory Welding Helmet Range by technical feature.

see page 10

NEW 3M™ Speedglas™ G5-03 Pro Welding Helmet Series

Built To Adapt

Designed for the professional welder, the 3M™ Speedglas™ Welding Helmet G5-03 Pro is highly versatile to ensure you don't have to compromise on function, performance, or safety.

New TAP Technology**Peripheral SideWindows****True-View Technology****Configurable Coverage****Optional Task Light****Bluetooth® Connectivity**



TAP function.



Variable Dark State Colors.



True-View Technology

Upgrade your performance

Extra-large viewing area with Speedglas™ True-View optics and Auto-On technology.

SideWindows: Shade 5 windows enhance your peripheral vision to widen your overall field of view.

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

Configurable head and neck protection to suit your specific needs.



NEW TAP function enables easy switching between grind, cut, and weld modes by simply tapping the side of your welding helmet.*

Lens reacts down to an industry-leading 1 amp.

Bluetooth® connectivity enables control of your welding lens settings directly from your smart phone.*



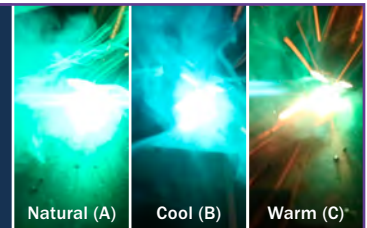
Optional helmet-mounted task light provides hours of powerful lighting for work in poorly lit spaces.

* Not available with G5-03NC

CHOOSE YOUR SPEEDGLAS G5-03 WELDING LENS

Speedglas G5-03VC Welding Lens (71 x 108mm)

- **Variable Colour Technology**
Choose between natural, cool, or warm colour tones.
- **Extra Dark Shade 14**
For high amperage welding (shades 3/5, 8-14).



Speedglas G5-03TW Welding Lens (71 x 108mm)

- **Ultra Bright Light State 2.5**
Enhances benefits of True-View (shades 2.5/5, 8-13).
- **Tack Welding Mode (Intermediate Shade 5)**
Minimises eye strain during dark-light transition.



Shade 2.5 Light State

Speedglas G5-03NC Welding Lens (55 x 107mm)

- **Shades 3/5, 8-12**
Signature Speedglas optical quality.
- **Grind & Cut Mode**
Shade 3 grind mode and shade 5 cut mode.



Shade 3 Grind Mode

Part Number

631830

631820

631810

Description

3M™ Speedglas™ G5-03VC Pro Welding Helmet

3M™ Speedglas™ G5-03TW Pro Welding Helmet

3M™ Speedglas™ G5-03NC Pro Welding Helmet

NEW 3M™ Speedglas™ G5-03E Welding Helmet

Slim & Light

The new 3M™ Speedglas™ G5-03E is a non-respiratory welding helmet that is primed to deliver premium Speedglas features and optics at a budget-friendly price point.



True-View Technology



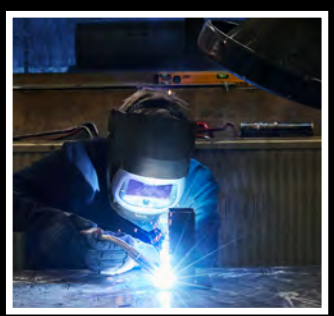
Slim, Lightweight Profile



Grind & Cut Mode



Arc Detection > 1 Amp



Optional Task Light



Extra Coverage Available





Finally, it's here!

Compliant with Australian and New Zealand Standard AS/NZS1337.1 for high impact eye and face protection.

A super lightweight, slim profile with no protruding parts.

Large 55 x 107mm viewing area with True-View optics for a lighter, brighter, more realistic view.



Improved head harness with smooth ratchet mechanism for precise tightening and comfort.

Lens reacts down to an industry-leading 1 amp.

Includes Shade 3 grind mode and Shade 5 cut mode (full shade range 3/5, 8-12).

Optional helmet-mounted task light provides hours of powerful lighting for work in poorly lit spaces.



A selection of extended coverage is available.



Step-up to Speedglas!

Have you been holding out for 3M™ Speedglas™ to release a premium slim, lightweight, and comfortable welding helmet with precision TrueView optics at an affordable price point? Finally, it's here.

3M™ Speedglas™ G5-03E
Part Number: 631010



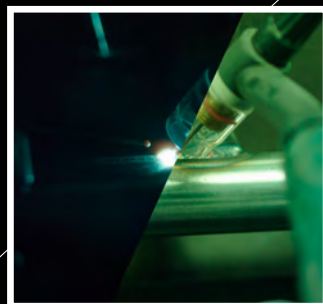
A World First

Built for TIG welders doing high-performance, critical work, the Speedglas G5-02 sets a new world standard for precision viewing courtesy of the world's first curved auto-darkening welding lens.

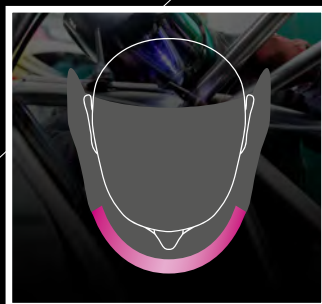
Curved Glass Technology



Shade 2.5 Light State



Slim Helmet Profile



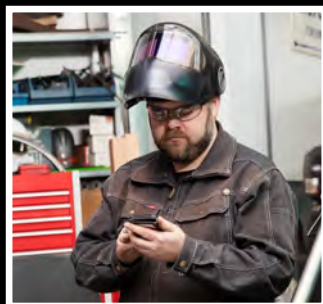
Arc Detection > 1 Amp



Curved Consumables



Bluetooth® Connectivity





Wider views in a slimmer helmet

Ultra-bright light state (2.5) enhances True-View optics.

Super lightweight design follows the curvature of the head for improved weight distribution.

Optimised for low amp TIG welding, the G5-02 lens has 4 arc sensors which react down to an industry-leading 1 amp.

Curved lens and slimmer profile help reduce distracting reflections and glare inside the helmet.

Curved 76 x 150mm lens creates a 100% wider field of view than a traditional flat lens.

Lens is Bluetooth® enabled to be securely paired with a smartphone, allowing you to select shades, sensitivity and up to 4 pre-set memory modes from the palm of your hand.

New exhaled air venting system reduces heat and humidity for improved comfort.

New control panel is more intuitive, with most frequently used settings like shade (left corner) and sensitivity (right corner) positioned in the most accessible locations.



Why Curved?

Feedback from professional TIG welders was unanimous; a wider view was much preferred over a taller view.

However, welders have historically had to compromise: either a slim helmet or a wider field of view.

But not anymore...

The only way to achieve wider views without making the helmet wider was by inventing a curved welding lens: a design that has taken 20 years to perfect!



3M™ Speedglas™ G5-02
Part Number: 621120

3M™ Speedglas™ Welding Helmets



Specification	3M™ Speedglas™ G5-03VC Pro 63 18 30	3M™ Speedglas™ G5-03TW Pro 63 18 20
MMAW (electrode)	✓	✓
MIG/MAG	✓	✓
TIG (>1A)	✓	✓
Plasma (welding and cutting)	✓	✓
Hidden arc	✓	✓
Tack welding	✓	✓
Grinding (welding lens)	TAP Technology (shade 3)	TAP Technology (shade 2.5)
Viewing area (welding lens)	71 x 108 mm	71 x 108 mm
3M™ Speedglas™ Curved Glass Technology	No	No
Battery lifetime	1 500 – 2 000 hours	1 500 – 2 000 hours
Variable Colour Technology	Yes	No
Memory modes	Yes (via mobile app)	Yes (via mobile app)
Dark state	Shades 5, 8-14	Shades 5, 8-13
Light state	Shade 3 (with True-View)	Shade 2.5 (with True-View)
UV/IR Protection	Shade 14 (permanent)	Shade 13 (permanent)
Switching time, light-dark	0.1 ms (+23° C)	0.1 ms (+23° C)
Delay (switching time, dark-light)	50-1300 ms	50-1300 ms
Two step recovery	Yes (shade 7)	Yes (shade 5)
SideWindows	Yes	Yes
TAP Technology	Yes	Yes
Bluetooth® connectivity	Yes	Yes
Optional task light	Yes	Yes
Standards Compliance Eye protection Face protection	AS/NZS1338.1 AS/NZS1337.1	AS/NZS1338.1 AS/NZS1337.1



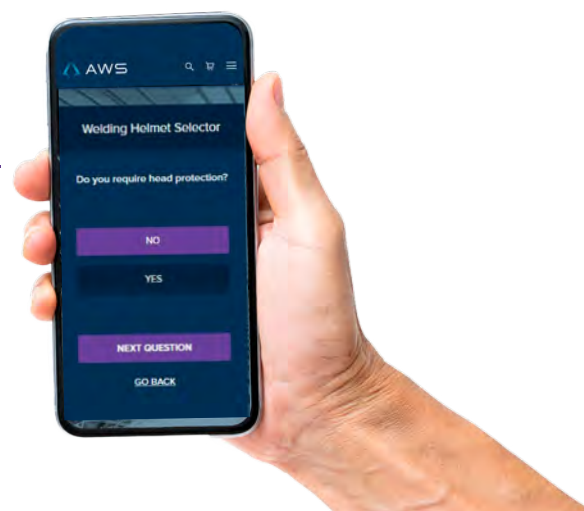
3M™ Speedglas™ G5-03NC Pro 63 18 10	3M™ Speedglas™ G5-03E 63 10 10	3M™ Speedglas™ G5-02 62 11 20
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
Yes (shade 3)	Yes (shade 3)	No
55 x 107 mm	55 x 107 mm	Curved 76 x 150 mm
No	No	Yes
2 500 hours	2 500 hours	1 500 hours
No	No	No
No	No	Yes (via mobile app)
Shades 5, 8-12	Shades 5, 8-12	Shades 8-12
Shade 3 (with True-View)	Shade 3 (with True-View)	Shade 2.5 (with True-View)
Shade 12 (permanent)	Shade 12 (permanent)	Shade 12 (permanent)
0.1 ms (+23° C)	0.1 ms (+23° C)	0.1 ms (+23° C)
50-470 ms	50-470 ms	50-1000 ms
No	No	No
Yes	No	No
No	No	No
No	No	Yes
Yes	Yes	No
AS/NZS1338.1 AS/NZS1337.1	AS/NZS1338.1 AS/NZS1337.1	EN ISO 16321-2:2021 / 16321-1:2022 AS/NZS1337.1

Welding Helmet Selector Tool



If you're still unsure about which helmet best suits your needs, try our Welding Helmet Selector Tool or contact AWS!

www.apexweldingsafety.com.au/welding-helmet-selector



About AWS

AWS was established in 1994 and has played a key role in the welding industry ever since.

As an advocate for welders' safety in Australia and New Zealand, AWS has published numerous Welding Safety White Papers, Welding Industry Reports, and Welding Fume Control Frameworks. AWS is a company that specialises in welding safety equipment, and it is our goal to raise awareness on the important issues that welders face.

As the sole agent for the 3M™ Speedglas™ range of welding helmets with integrated respiratory protection, the Plymovent, Bomaksan, and Nederman range of portable local exhaust ventilation fume protection systems, the Translas on-gun welding fume extraction range, the range of Guide welding gloves, and a 3M personal protective equipment wholesaler, AWS are extremely well placed to help businesses understand the different types of product controls that can be introduced into the workplace to better protect welders and those who work in close proximity to welders.

For more information on welding fume monitoring, welding PPE, or welding fume LEV extraction options, please contact AWS.

www.apexweldingsafety.com.au/welding-safety-white-papers



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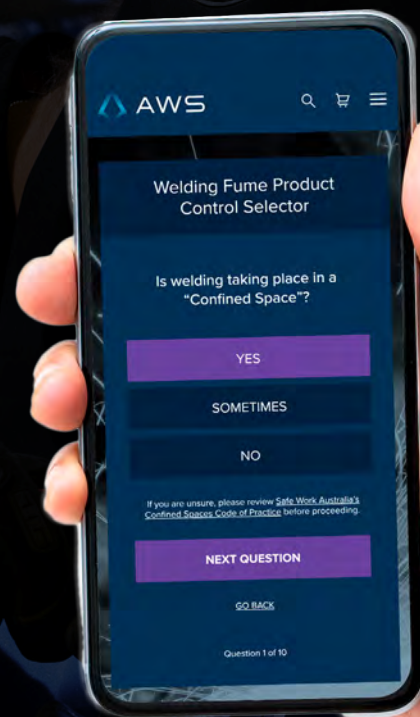
facebook.com/apexweldingsafety

youtube.com/awsspeedglas

Welding Fume is serious. Action is required.

The important point to understand is that while the risk posed by welding fume is serious, keeping yourself safe can be straightforward.

If you are looking for guidance on welding fume product controls for a specific environment or you would like to know which specific products can be introduced to control welding fume at your workplace – please try the Welding Fume Product Control Selector using the QR code below.



Scan to use the
Welding Fume
Product Control
Selector!

The solutions generated in this selector are based on the results of an Australian independent scientific study that was published in 2023 to compare the effectiveness of welding fume product controls.