



# Technical Datasheet

## 3M™ Speedglas™ 9002V & 9002X Welding Lenses

### Description:

The 3M™ Speedglas™ auto-darkening welding lenses 9002V and 9002X are designed to fit into all Speedglas 9000 welding helmets including the ones for respirator systems.

The Speedglas welding lenses 9002V and 9002X have five selectable shades and four selectable detector sensitivity levels.

- Easy to operate and maintain.
- Five user selectable dark shades 9, 10, 11, 12 and 13
- Four user selectable levels of sensitivity ensure reliable arc detection.
- Excellent visibility in light state, shade 3, for easy welding preparation and after-treatment.

### Applications:

The Speedglas welding lenses 9002V and 9002X are designed for most welding applications. Specifically for MMA, MIG/MAG and TIG welding.

### Approvals:

The Speedglas welding lenses 9002V and 9002X are approved together with Speedglas 9000 welding helmets as eye and face protection systems.

### Standards:

Speedglas welding lens 9002V and 9002X are approved to AS/NZS 1337 & 1338.1.

### Materials:

Protection plates: Polycarbonate  
 Plastics: Polyamide, Polycarbonate  
 Optical Part: LC-Elements, Glass, Polarisers  
 Electronics: Printed circuit board assembly  
 Batteries: Lithium 3V Type CR2032

### Use Limitations:

Speedglas welding lenses 9002V and 9002X are not suitable for laser welding or laser cutting. Speedglas welding helmets 9000 are excellent for all positions except heavy duty overhead cutting/welding operation due to the risk of molten metal.

### Technical Specifications:

<b>Weight:</b>	160 g (welding lens 9002V only) 190 g (welding lens 9002X only) 475 g (9002V incl. welding helmet) 505 g (9002X incl. welding helmet)
<b>Viewing area:</b>	9002V 42x93 mm 9002 X 55 x 107 mm
<b>UV/IR protection</b>	According to shade number 13 (permanent)
<b>Switching time light-dark:</b>	0.1ms (+23°C)
<b>Opening time dark-light:</b>	60 to 500 ms
<b>Light state:</b>	Shade number 3
<b>Dark state:</b>	Shade number 9, 10, 11, 12 and 13
<b>Fail/Safe (Off) state:</b>	Shade number 5-6
<b>Battery type:</b>	2x CR2032 (Lithium 3 Volt)
<b>Solar cell:</b>	Yes (9002X only)
<b>Battery life time:</b>	1500 hours (9002V) 3000 (9002X)
<b>Range of temperature Use:</b>	-5°C - +55°C
<b>Storage:</b>	-30°C - +70 °C



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