

 **Speedglas™**

Auto-Darkening Welding Shields

World's best welding performance



SAFETY • TECHNOLOGY • ERGONOMICS • DESIGN • COMFORT • INNOVATION

Eye protection that increases your performance.

There are five different Speedglas™ auto-darkening welding lenses to choose from, depending on the type of welding you do, but also on personal preferences for fixed or variable shades, normal or large viewing areas, and additional options such as sensitivity and delay adjustments.

The table on your right is a quick guide to the various models based solely on welding applications.

	Recommendation for production welding:				
	9002X	9002V	9000XF	9002D	Utility
MMAW (Electrode)	Optimised	Optimised	Suitable	Suitable	Suitable
MIG/MAG	Optimised	Optimised	Suitable	Suitable	Suitable
TIG (>20A)	Optimised	Optimised	Suitable	Optimised	Not Recommended
TIG (1A-20A)	Optimised	Optimised	Suitable	Not Recommended	Not Recommended
Plasma (welding and cutting)	Suitable	Suitable	Suitable	Suitable	Not Recommended
Risk for hidden arc	Optimised	Optimised	Not Recommended	Not Recommended	Not Recommended
Grinding with FlexView	Suitable	Suitable	Suitable	Suitable	Suitable



Speedglas™ 9002X

– Top of the line shield optimised for all welding applications

- ▶ Extra large viewing area: 55x107 mm.
- ▶ Five variable dark shade levels 9–13.
- ▶ Four adjustable sensitivity levels handle all types of arc welding.
- ▶ Unsurpassed in intelligent switching during low-amp steady TIG welding.
- ▶ Three adjustable delay settings allow the welder to adjust the dark-to-light switch time.
- ▶ Membrane covered control buttons with LED display.



Part numbers

Complete welding shield: 40 11 80
 Complete welding shield with SideWindows: 40 18 80
 Speedglas™ 9002X welding lens only: 40 00 80

Speedglas™ 9002V

– Tradesman's welding shield optimised for all welding applications

- ▶ Five variable dark shade levels 9–13.
- ▶ Four adjustable sensitivity levels handle all types of arc welding.
- ▶ Unsurpassed in intelligent switching during low-amp steady TIG welding.
- ▶ Three adjustable delay settings allow the welder to adjust the dark-to-light switch time.
- ▶ Membrane covered control buttons with LED display.



Part numbers

Complete welding shield: 40 11 70
 Complete welding shield with SideWindows: 40 18 70
 Speedglas™ 9002V welding lens only: 40 00 70



Speedglas™ 9000XF

– Fixed shade welding shield with extra large viewing area

- ▶ Extra large viewing area: 55x107 mm.
- ▶ Fixed dark shades 10, 11 or 12.
- ▶ Manual sensitivity adjustment provides additional adaptability under a variety of lighting conditions.



Part numbers

Complete welding shield:
40 11 50 (Sh 10), 40 11 51 (Sh 11), 40 11 52 (Sh 12)

Complete welding shield with SideWindows:
40 18 50 (Sh 10), 40 18 51 (Sh 11), 40 18 52 (Sh 12)

Speedglas™ 9000XF welding lens only:
40 00 50 (Sh 10), 40 00 51 (Sh 11), 40 00 52 (Sh 12)



Speedglas™ 9002D

– The latest addition to the 9002 series welding shields with dual shades

- ▶ Dual dark shade levels 9 & 11.
- ▶ Two adjustable sensitivity levels handle all types of welding including TIG from 20 amps.
- ▶ Membrane covered control buttons with LED display.



Part numbers

Complete welding shield: 40 11 40
Complete welding shield with SideWindows: 40 18 40
Speedglas™ 9002D welding lens only: 40 00 40



Speedglas™ Utility

– Robust entry level welding shield for MIG and stick welding

- ▶ Fixed dark shades 10 or 11.



Part numbers

Complete welding shield:
40 81 10 (Shade 10), 40 81 11 (Shade 11)

Speedglas™ Utility welding lens only:
40 80 10 (Shade 10), 40 80 11 (Shade 11)

Technical Data 3M™ Speedglas™ Welding Shields

	Speedglas 9002X	Speedglas 9002V	Speedglas 9000XF	Speedglas 9002D	Speedglas Utility
Approvals	Conforms to AS/NZS1337 & AS/NZS1338.1	Conforms to AS/NZS1337 & AS/NZS1338.1	Conforms to AS/NZS1337 & AS/NZS1338.1	Conforms to AS/NZS1337 & AS/NZS1338.1	Conforms to AS/NZS1337 & AS/NZS1338.1
Eye protection	AS/NZS1337 & AS/NZS1338.1	AS/NZS1337 & AS/NZS1338.1	AS/NZS1337 & AS/NZS1338.1	AS/NZS1337 & AS/NZS1338.1	AS/NZS1337 & AS/NZS1338.1
Classification	1 / 1 / 2	1 / 1 / 1	1 / 2 / 1	1 / 2 / 2	1 / 2 / 2
Switching time light-dark	0,1 ms (+23°C)	0,1 ms (+23°C)	0,4 ms (+23°C)	0,4 ms (+23°C)	0,9 ms (+23°C)
Switching time dark-light	60–500 ms	60–500 ms	100 ms	100–200 ms	100 ms
UV / IR protection	Shade 13 (permanent)	Shade 13 (permanent)	Shade 13 (permanent)	Shade 13 (permanent)	Shade 13 (permanent)
Viewing area	55x107 mm	42x93 mm	55x107 mm	42x93 mm	42x93 mm
Light state	Shade 3	Shade 3	Shade 3	Shade 3	Shade 3
Dark state	Shade 9–13 (variable)	Shade 9–13 (variable)	Shade 10,11 or 12 (fixed)	Shade 9/11 (dual)	Shade 10 or 11 (fixed)
Fail / Safe state	Shade 5–6	Shade 5–6	Shade 5–6	Shade 5–6	Shade 5–6
Battery type	Lithium 3 Volt	Lithium 3 Volt	Lithium 3 Volt	Lithium 3 Volt	Lithium 3 Volt
Solar cell	Yes	No	No	No	No
Battery life time	3 000 hours	1 500 hours	1 700 hours	1 500 hours	2 000 hours
Range of temperature					
Use	-5°C – +55°C	-5°C – +55°C	-5°C – +55°C	-5°C – +55°C	-5°C – +55°C
Storage	-30°C – +70°C	-30°C – +70°C	-30°C – +70°C	-30°C – +70°C	-30°C – +70°C
Warranty	Two years	Two years	Two years	Two years	Two years

Our focus is welders

Our integrated production enables us to achieve outstanding quality control in all processes. As a result, Speedglas™ is the world's leading brand of protective equipment for welders. And just as hundreds of thousands of users rely on Speedglas™ products every day for their best welding performance, we rely on welder comments for future product designs, developments and improvements.



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