

# Technical Data 3M™ Speedglas™ Welding Helmets and Welding Filters

- Best\*\*
- Better\*\*
- Good\*\*
- Not Recommended\*\*



	3M™ Speedglas™ Welding Helmet 9100 MP				3M™ Speedglas™ Welding Helmets 9100 FX and 9100 FX-Air			
3M™ Speedglas™ Welding Filter Options	9100XXi Filter	9100XX Filter	9100X Filter	9100V Filter	9100XXi Filter	9100XX Filter	9100X Filter	9100V Filter
MMAW (Electrode)								
MIG/MAG								
TIG (>20A)								
TIG (1A-20A)								
Plasma (welding and cutting)								
Risk for hidden arc								
Tack welding								
Grinding (welding filter)								
Grinding (clear visor)								
Viewing area (welding filter)	2.8 × 4.2 in. (72×107 mm)	2.8 × 4.2 in. (72×107 mm)	2.1 × 4.2 in. (54×107 mm)	1.8 × 3.7 in. (45×93 mm)	2.8 × 4.2 in. (72×107 mm)	2.8 × 4.2 in. (72×107 mm)	2.1 × 4.2 in. (54×107 mm)	1.8 × 3.7 in. (45×93 mm)
Battery lifetime	1 800 hours	2 000 hours	2 500 hours	2 800 hours	1 800 hours	2 000 hours	2 500 hours	2 800 hours
Solar cell	No		Yes		No		Yes	
Hard hat options	Yes				Yes (non-air version)			
Classification (per EN 379)*	1 / 1 / 1 / 2				1 / 1 / 1 / 2			
Dark state	Shade 5, 8, 9–13				Shade 5, 8, 9–13			
Light state	Shade 3				Shade 3			
UV/IR Protection	Shade 13 (permanent)				Shade 13 (permanent)			
Auto ON	Yes	No			Yes	No		
Switching time, light -dark	0.1 ms (+23° C)				0.1 ms (+23° C)			
Delay (switching time, dark-light)	40–1 300 ms				40–1 300 ms			
Side windows option	Yes				Yes			
Exhaust vents	N/A				Yes (non-air version)			
Number of sensors (arc detection)	3				3			
Approvals Head, Eye and Face protection Welding helmet and filter, protection plates Hard Hat	ANSI Z87.1 - 2010 ANSI Z89.1-2009 -Type 1, Class G				ANSI Z87.1 - 2010 N/A			
Approval Respiratory Protection Adflo powered air purifying respirator Fresh-air III supplied air valve	APF 25 APF 25				with Speedglas welding helmet 9100 FX-Air APF 25 APF 25			

\* Auto-darkening welding filters have a four-part classification: optical class / diffusion of light / variation on luminous transmittance / angle dependence. Classifications range from 1/1/1/2 to 5/5/5/5.  
 \*\* The ratings (good - better - best) above refer to the products listed in this chart and should be seen as general recommendations based on differences in product comfort features.

