

EYE & FACE PROTECTION



3M H8A - Headgear with Ratchet 3M-82501-00000

- Ratchet headgear for use with 3M Faceshields (sold separately)
- High strength thermoplastic crown provides impact resistance
- Adjustable ratchet suspension with five position crown strap offers a customized fit
- Developed for use in metalworking, woodworking, utilities and many other industries
- Meets the high impact requirements of ANSI Z87.1-2003



3M H10 Headgear with Crown Extender / Protection 3M-82516-00000

- Adjustable ratchet suspension
- Crown extender for added coverage
- Five position crown strap
- Headgear gives users a wide choice of faceshield materials, sizes, shapes and tints for task specific requirements
- Meets the requirements of ANSI Z87.1-2003



3M HCP8 Ratchet Headgear with 3M™ Clear Chin Protector 3M-82521-10000

- Uses WP98 window (82543-0000), sold separately
- Five position crown strap
- Requires protective eyewear, sold separately
- Helps provide head protection to workers in metal working, utilities, wood working, and many other industries
- Meets the requirements of ANSI Z87.1-2003



3M WP96 Clear Polycarbonate Faceshield 3M-82701-00000

- Molded polycarbonate faceshield provides impact protection
- Mounts quickly to 3M headgear (sold separately)
- Installation to headgear requires no tools, snaps or cams
- Developed for use in metalworking, utilities and many other industries
- Meets the high impact requirements of ANSI Z87.1-2003



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H8A - Headgear with Ratchet 3M-82501-00000

WP96X Wide Clear Polycarbonate Faceshield 3M-82582-00000

- Flat stock
- Larger faceshield size helps provide additional coverage area
- 3M[™] Easy-Change[™] Faceshields mount quickly to 3M headgear
- Meets the high impact requirements of ANSI Z87.1-2003



Visagom 3500 AL-V3733500

- Lift-front helmet attachment for face screens
- Without metal parts
- Special version for electricians
- Available with face shields in size: 345 x 200mm (fog-free)
- Meets CE EN166F
- Face shield & Helmet sold separately



Visorama 3800 AL-V3733800

- Headgear with lift-front part
- Headband adjustable by wheel
- Available with face shields in size: 345 x 200mm (fog-free)
- Meets CE EN166F
- Face shield sold separately



FC48 Clear Visor SW-FC48-C

- Clear Polycarbonate with Aluminum Bound
- Size: 8" X 15 1/2" X1.0mm
- For A3 & A4 Visor Holder
- For SW176 Headgear
- Headgear sold separately

*Picture for illustration only

SW-A4 Visor Holder SW-A4

 All aluminum visor bracket, assemble with safety helmet and visor



3M™ Speedglas™ Welding Helmets and Welding Filters

Best*** Better***

Good***

Not Recommended***









| | Technical specification | 3M [™] Speedglas [™] Welding Helmets 9100, 9100 Air and 9100-QR | | | | 3M™ Speedglas™ Welding Helmet 9100 MP | |
|--|--|---|---------------------------|-------------|-------------------------|---|-------------|
| | 3M™ Speedglas™ Welding Filter | 9100XXi | 9100XX | 9100X | 9100V | 9100XXi | 9100XX |
| | 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) | N/A | | | | | |
| | Viewing area (welding filter) | 73x10 | 73x107 mm 54x107 mm 45x93 | | 45x93 mm | 73x1 | 07 mm |
| | Battery lifetime | 1 800 hours | 2 000 hours | 2 500 hours | 2 800 hours | 1 800 hours | 2 000 hours |
| | Solar cell | No Yes | | | No | | |
| | Safety Helmet options | Yes (non air version) | | | | Yes | |
| | Classification | 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) |
| | Memory mode | Yes No | | | | N | lo |
| | Delay (switching time, dark-light) | 40–800 ms 40–1 300 ms | | | 40–800 ms | 40–1 300 ms | |
| | SideWindows option | | Yes | Ye | es | | |
| | Exhaust vents | Yes (non air version) | | | | N/A | |
| | Number of sensors (arc detection) | 3 | | | | 3 | |
| | Approvals Eye and Face protection Welding helmet Welding filter Protection plates Visor plate | EN175:B EN 379 EN166:BT* N/A | | | | EN175:B, EN 166 B EN 379 EN166:BT* EN166:BT* | |
| | Approval Head protection Safety helmet | 440 Vac (3N Safety Helmet H-701) | | | | EN 397 440 Vac, LD | |
| | Approval Respiratory Protection / NPF** Adflo Powered Air Respirator Versaflo V-500 Supplied Air Regulator | with Speedglas welding helmet 9100 Air EN 12941 (TH2) / NPF 50 EN 14594 (3B)/ NPF 200 | | | | EN12941(TH3) /NPF 500 EN14594 (3B)/ NPF 200 N/A | |

for resistance to high speed particle was conducted at extremes of temperatures (-5° to +55°C).

The nominal protection factor based on laboratory-measured performance data according to European Standards. The protection factor is assigned by local authorities in each European coutherefore be different for each country.

* 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 and configurations when using these selected Speedglas welding helmet series.

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| Weldi | peedglas [™] ng Helmet 00 MP | 3M [™] Speedglas [™] Welding Helmets 9100 FX and 9100 FX Air | | | | 3M™ Speedglas™ Welding Helmet SL | 3M™ Speedglas™ t Welding Helmet Series 100 and 100-QR | |
|---|---|---|-------------|-------------|-----------------|--|---|----------------|
| 9100X | 9100V | 9100XXi | 9100XX | 9100X | 9100V | SL | 100V | 100S |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | N/A | N | /A |
| 54x107 mm | 45x93 mm | 73x107 mm | 73x107 mm | 54x107 mm | 45x93 mm | 42x93 mm | 44 x 93 mm | |
| 2 500 hours | 2 800 hours | 1 800 hours | 2 000 hours | 2 500 hours | 2 800 hours | 1 500 hours | 1 500 hours | |
| Yes | | No | | Yes | | No | No | |
| Yes | | Yes (non air version) | | | No | Yes | | |
| 1/1/1/2 | | 1/1/1/2 | | | | 1/1/1/2 | 1/2/2/2 | |
| Shade 5, 8, 9–13 | | Shade 5, 8, 9–13 | | | | Shade 8–12 | Shade 8–12 | Shade 10 or 11 |
| Shade 3 | | Shade 3 | | | | Shade 3 | Shade 3 | |
| Shade 13 (permanent) | | Shade 13 (permanent) | | | | Shade 12 (permanent) | Shade 12 (permanent) | |
| No | | Yes | Yes No | | | Yes | No | |
| 0,1 ms (+23° C) | | 0,1 ms (+23° C) | | | 0,1 ms (+23° C) | 0,1 ms (+23° C) | | |
| No | | No | | | | No | N | lo |
| 40–1 300 ms | | 40–800 ms 40–1 300 ms | | | 60–250 ms | 40–250 ms | 150 or 250 ms | |
| Yes | | Yes | | | | No | N | lo |
| N/A | | Yes (non air version) | | | | No | No | |
| 3 | | 3 | | | | 2 | 2 | |
| EN175:B, EN 166 B EN 379 EN166:BT* EN166:BT* | | EN175:B, EN 166:B EN 379 EN166:BT* EN166:BT* | | | | EN 175:F EN 379 EN166:FT N/A | EN 175:B EN 379 EN 166:BT* N/A | |
| EN 397 440 Vac, LD | | 440 Vac (3M Safety Helmet H-701) | | | | N/A | 440 Vac (3M Safety Helmet H-701) | |
| EN12941(TH3) /NPF 500 EN14594 (3B)/ NPF 200 N/A | | with Speedglas welding helmet 9100 FX Air EN 12941 (TH3) / NPF 500 EN 14594 (3B)/ NPF 200 | | | | N/A | N/A | |

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3M™ Speedglas™ Welding Helmets – sorted by features





Eye & face



Side windows



Hearing protection**



Exhaust vents



Respiratory



Graphics option



Head protection



Auto-on



Flip-up



^{*} Only in combination with 3M™ Speedglas™ Welding Filter 9100XXi ** 3M™ PELTOR™ Hearing Protection available as accessories, see each welding helmet parts list.