

3M Speedglas™ Auto-Darkening Welding Helmets

User Instructions for:

- Utility
- 9000XF
- 9002D
- 9002V
- 9002X

Important: Keep these User Instructions for reference.

Masques pour soudeurs avec filtre à lentille photosensible Speedglas™

Directives d'utilisation pour les masques :

- «Utility»,
- 9000XF
- 9002D
- 9002V
- 9002X

Important: Conserver ces directives à titre de référence.

Caretas con lente auto-oscurecente para soldadura Speedglas™

Instrucciones para:

- Utility
- 9000XF
- 9002D
- 9002V
- 9002X

Importante: Conserve estas Instrucciones para referencia futura.

A. WARNING
These products are designed to help protect the wearer from harmful radiation including visible light, ultra-violet radiation (UV) and infrared radiation (IR) resulting from certain arc and gas welding processes when used in accordance with these User Instructions. Use of this product in any other application such as laser welding or welding processes that require shade 14 or higher filters may result in permanent eye injury and vision loss. Do not use any welding product without appropriate training. For protection see section 9 or call 3M in U.S.A. 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414. Always wear ANSI Z87.1-2003 compliant safety spectacles in addition to any welding helmet. Failure to do so may result in permanent eye injury and vision loss. In Canada, follow CSA Z94.2-03 and ANSI Z87.1-2003 for the safe use of the equipment. Before each use, perform the inspection described in these User Instructions to ensure that all components are installed and functioning as intended. Use of 3M™ welding helmet assemblies that do not meet these inspection requirements or parts of the helmet that do not use genuine 3M™ Speedglas™ replaceable parts may result in cracked, pitted or otherwise damaged as these conditions may compromise eye/face impact protection and may allow harmful UV and IR radiation to pass through causing permanent eye injury and vision loss. Do not use welding filters that are cracked, pitted or otherwise damaged as these conditions may compromise eye/face impact protection and may allow harmful UV and IR radiation to pass through causing permanent eye injury and vision loss. If the problem cannot be identified and corrected, do not use the ADF; contact your supervisor or 3M representative.

Some head injuries may result if these welding helmets are used for heavy-duty overhead welding applications where there is a potential for falling molten metal.

Only operate these ADFs at temperatures between 23°F (-5°C) and 131°F (+55°C). If used outside of this range, the filter may not perform as designed and may result in permanent eye injury and vision loss.

GENERAL INFORMATION

This product contains no components made from natural rubber latex.

Intended use:

The 3M™ Speedglas™ Auto-Darkening Welding Helmets are designed to help protect the wearer's eyes from harmful radiation including visible light, ultra-violet radiation (UV) and infrared radiation (IR) resulting from certain arc and gas welding processes when used in accordance with these User Instructions. Two eye-level sensors on the front of 3M™ Speedglas™ welding helmets detect incoming filters (AFDs) and read their shade levels to determine the correct shade. Once the ADF switches to the dark state, the ADF switches back to the light shade (shade 3) as soon as the welding arc is stopped. ADFs can also be used for gas welding (oxy-acetylene) when the filter is in the "OFF" state, shade 5-6. Two lithium batteries are used as the power source. The ADF will switch off automatically after 90 minutes if no welding is performed. If the battery voltage drops below a certain level, the ADF will turn off. If the ADF is continuous, whether the ADF is in the light or the dark state. In the event of battery or electronic failure, the welder remains protected against UV and IR radiation according to the darkest shade (shade 13).

3M™ Speedglas™ ADFs allow the welder to view their work clearly and safely during set-up, during the welding process and when welding ends without the need to remove the welding filter or shield or filter. ADFs allow manual arc welding to be performed quickly and accurately in comparison to traditional passive welding filter plates.

3M™ Speedglas™ ADFs also provide a unique additional mechanism that allows the ADF to be fitted, exposing a 4.75" x 3.6" (120 mm x 92 mm) clear polycarbonate lens. The clear lens meets ANSI Z94.2-2003 requirements for eye and face impact protection, making it ideal for chopping, grinding and precision weld preparation. A spring holds the ADF security on top of the helmet while not in use.

USE INSTRUCTIONS AND LIMITATIONS

Important: These products do not provide any protection from respiratory hazards that may result from welding processes or from other sources. 3M™ Speedglas™ Welding Helmets may be worn in conjunction with certain respirator models. For more information about respiratory protection for welders, contact 3M™ Speedglas™ at 1-800-243-4630. Respiratory protection is not included with the 3M™ Speedglas™ ADFs. They are not suitable for laser welding or welding processes that require shade 14 or higher filters. Use of this product for these applications may result in permanent eye injury and vision loss.

Only operate the ADF at temperatures between 23°F (-5°C) and 131°F (+55°C). If used outside of this range, the filter may not perform as designed and may result in permanent eye injury and vision loss.

REPLACEMENT PARTS AND ASSEMBLIES

Replacement ADFs:

04-0000-05 9002D ADF only

04-0000-shade 10, 11 or 12X 9000XF ADF only

04-0000-21 9002X ADF only

ADF Replacement Parts:

04-0270-00 3M™ Outside Protection Plate 9000, 10 per case

04-0270-10X01 3M™ Inside Protection Plate 9000, 10 per case, Standard package of 10

04-0280-00 3M™ Inside Protection Plate 9000, 8 & 9 size (large), 5 per case

04-0280-01 3M™ Inside Protection Plate 9000, 8 & 9002 Series X size (large), 5 per case

04-0280-02 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-03 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-04 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-05 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-06 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-07 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-08 3M™ Inside Protection Plate 9000, X size (large), 5 per case

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04-0280-10 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-11 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-12 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-13 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-14 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-15 3M™ Inside Protection Plate 9000, X size (large), 5 per case

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04-0280-76 3M™ Inside Protection Plate 9000, X size (large), 5 per case

04-0280-77 3M™ Inside Protection Plate 9000, X size (large), 5 per case

