

# 3M™ Speedglas™ Filters and Helmets

A QUICK GUIDE



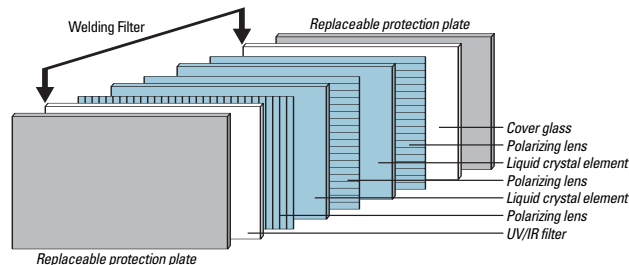
 **Speedglas**

3M Welding

**3M**

# How Auto-Darkening Safety Works

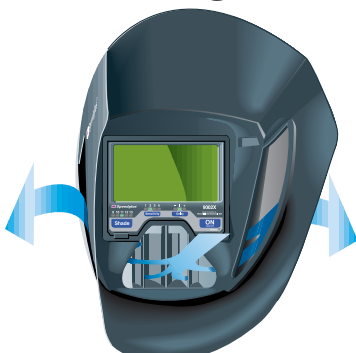
Each 3M™ Speedglas™ Auto-Darkening Filter (ADF) is a laminate of seven different layers: a UV/IR filter, three polarizers, two liquid crystal elements and a cover glass. The UV/IR filter continually blocks harmful radiation, whether the filter is ON, OFF, light or dark. Aided by surface-mounted electronics, the proprietary liquid crystal elements act as shutters that detect and react to the welding arc by instantly shading the filter.



Meets ANSI Z87.1-2003 American National Standard Institute for eye and face protection.



## Welding Helmets That Breathe!



The revolutionary 3M™ Speedglas™ Helmet 9000 features aerodynamic exhaust vents in a patented design to help to remove exhaled air without letting in welding smoke.

**Note:** exhaust vents are *not* available on the Speedglas Utility model.



## Another Exclusive: Peripheral Vision



3M™ Speedglas™ SideWindows Helmets allow for peripheral vision. The two shade 5 side filters increase the viewing area by over 100%.

**Note:** SideWindows option is *not* available on the Speedglas Utility model.



## Ideal For Weld Prep/Grinding

The 3M™ Speedglas™ FlexView System has a big 4.75" x 3.6" (120 x 90mm) clear polycarbonate faceshield that's ideal for precision preparation work under regular lighting conditions. The user simply lifts up the spring-mounted Speedglas filter assembly for weld prep. The faceshield meets ANSI Z87.1-2003 standards.



## A Balanced Hard Hat For Welders

The 3M™ Speedglas™ ProTop System has an exclusive pivot mechanism that “nests” the welding helmet down low over the hard hat, in a balanced, locked-down position. The lower center-of-gravity helps reduce neck strain. The welding helmet automatically unlocks when the welder pulls it back down into position over the face.



# All 3M™ Speedglas™ Filter/Helmet Combinations Feature:

- Lightweight construction
- Snap together design (no filter fasteners)
- Narrow helmet design
- Extended throat protection
- Constant UV/IR protection
- Heat-reflecting front panel

And all this helps increase accuracy, quality and productivity!

3M™ Speedglas™ Model (Complete Filter and Helmet)	Dark Shade(s)	SideWindows Option Available	Exhalation Venting	Arc Welding Processes	Auto OFF Time	Light Shades	Viewing Area (in./mm)	Reflective Front	Headgear Adjustment	Weight: Filter and Helmet (oz./g)	Hard Hat Option	Battery Life (Average Hrs.)
Utility 04-0014-(insert shade #)	10 or 11	no	no	MIG and Stick only	30 min.	3	3.58 x 1.69 91 x 43	yes	7 positions	17.1 486	no	2000
9000F* 04-0012-(insert shade #)	10, 11 or 12	yes	yes	MIG, Stick and some TIG	30 min.	3	3.58 x 1.69 91 x 43	yes	7 positions	17.1 486	yes	2000
9000XF* 04-0012-(insert shade #) X	10, 11 or 12	yes	yes	MIG, Stick and most TIG	30 min.	3	4.09 x 2.12 104 x 54	yes	7 positions	17.4 493	yes	1000
9002V* 04-0012-31	9, 10, 11, 12 and 13 TIG, MIG and Stick	yes	yes	All arc processes including low amp/inverter TIG welding	30 min.	3	3.58 x 1.69 91 x 43	yes	7 positions	17.4 493	yes	2000
9002X* 04-0012-21	9, 10, 11, 12 and 13 TIG, MIG and Stick	yes	yes	All Arc Processes including low amp/inverter TIG welding	30 min.	3	4.09 x 2.12 104 x 54	yes	7 positions	17.4 493	yes	3000

\*For any of the above part numbers, add "H" for Hard Hat and/or "SW" for SideWindows

3M warrants all Speedglas filters for 24 months from the date of purchase against all manufacturing defects resulting from materials or workmanship. This warranty is void in the case of operator misuse, abuse, or neglect.

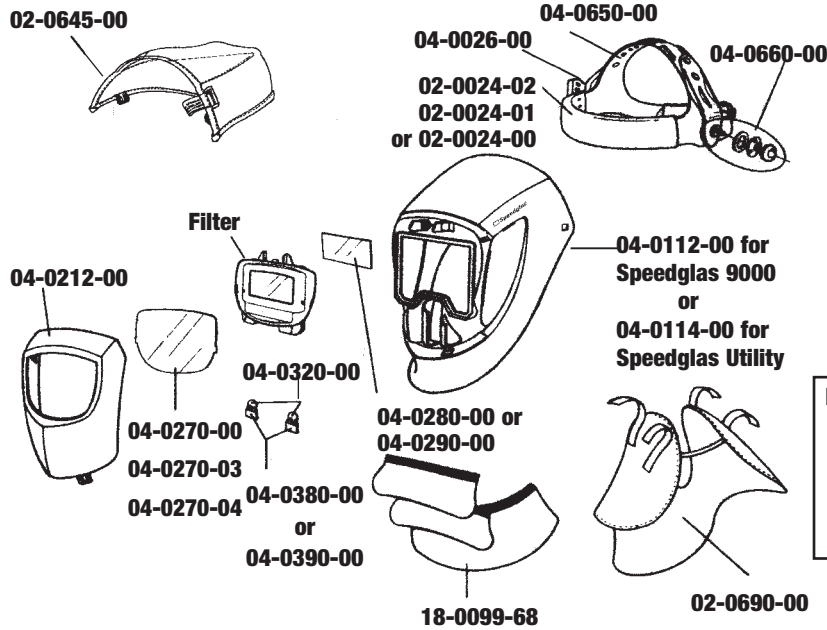
For additional product and warranty information, refer to the 3M Welding Complete Catalog or visit us at Speedglas.com.

## ⚠ WARNING

These welding safety products must be used only by qualified persons trained in their use and maintenance and only in strict accordance with and adherence to the detailed instructions and precautionary statements provided in the instruction manual which accompanies each product. **Failure to comply with these instructions could result in sickness, serious bodily injury or loss of life.**

For proper use of these products read user instructions and warnings on the package. Any questions concerning proper use should be directed to your supervisor, on-site training specialist, industrial hygienist or 3M Occupational Health and Environmental Safety Division (OH&ESD) Technical Service in the U.S.A. at 1-800-243-4630. In Canada, call 1-800-267-4414.

# 3M™ Speedglas™ Accessories and Replacement Parts for Utility and 9000 Series



**For FlexView or ProTop System parts, refer to the 3M Welding Complete Catalog (70-0710-9390-3) or visit Speedglas.com or 3M.com/Occsafety**

## Complete Helmets and Filters

- 04-0012-(shade 10, 11 or 12) Complete Speedglas filter and helmet 9000F
- 04-0012-(shade 10, 11 or 12)X Complete Speedglas filter and helmet 9000XF
- 04-0012-31 Complete Speedglas filter and helmet 9002V
- 04-0012-21 Complete Speedglas filter and helmet 9002X

**For any of the above part numbers, add "H" for Hard Hat and/or "SW" for SideWindows**

- 04-0014-(shade 10 or 11)U Complete Speedglas Utility filter and helmet

## Filters

- 04-0000-(shade 10, 11 or 12) Speedglas filter 9000F only
- 04-0000-(shade 10, 11 or 12)X Speedglas filter 9000XF only
- 04-0000-31 Speedglas filter 9002V only
- 04-0000-21 Speedglas filter 9002X only

## Filter Replacement Parts

- 04-0270-00 Outside protection plate standard-package of 10
- 04-0290-00 Inside protection plate for Utility, 9000F and 9002V-package of 5
- 04-0280-00 Inside protection plate for 9002X and 9000XF-package of 5
- 04-0480-00 9000XF and 9002X accessory kit (10 outside, 5 inside plates and 2 batteries)
- 04-0490-00 Utility, 9000F and 9002V accessory kit (10 outside, 5 inside plates and 2 batteries)
- 04-0320-00 Battery-package of 2
- 04-0380-00 Battery holders (blue)-package of 2
- 04-0390-00 Battery holders (black)-package of 2

\*Total shade level must not exceed shade #13. Do not use shaded inside protection plates for either 9002V or 9002X filters.

3M reserves the right to make changes in specifications at any time without prior notice. Speedglas and Adflo are trademarks of 3M. 3M products are protected by U.S. Patents 4,039,254; 4,240,709; Re. 29,684; 5,191,468. Also protected by international patents.

## Filter Accessories

- 04-0290-01 Inside protection plate, passive filter #1, for Utility and 9000F models-package of 5\*
- 04-0290-02 Inside protection plate, passive filter #2, for Utility and 9000F models-package of 5\*
- 04-0280-01 Inside protection plate, passive filter #1, for 9000XF model-package of 5\*
- 04-0280-02 Inside protection plate, passive filter #2, for 9000XF model-package of 5\*
- 04-0270-03 Outside protection plate HD (heavy duty)-package of 5
- 04-0270-04 Outside protection plate high heat-package of 5

## Helmet Replacement Parts

- 04-0012-00 Speedglas welding helmet with headband 9000 Series
- 04-0112-00 Speedglas inner welding helmet only 9000 Series

**For any of the above part numbers, add "H" for hard hat and/or "SW" for SideWindows**

- 04-0014-00 Speedglas Utility welding helmet with headband
- 04-0114-00 Speedglas Utility inner welding helmet only
- 04-0212-00 Silver front panel
- 04-0650-00 Headband; complete with mounting hardware
- 04-0660-00 Mounting hardware
- 04-0026-00 Speedglas Utility and 9000 Series helmet/headband "S" stop-package of 10

- 02-0024-02 Sweatband in cloth
- 02-0024-01 Sweatband in leather
- 02-0024-00 Sweatband in plastic

## Helmet Accessories

- 02-0645-00 Head protector (FR cotton)
- 18-0099-68 Throat and side protector, leather (3 parts)
- 02-0690-00 Throat protector (FR cotton)
- 02-0014-00NR Hard hat adapter
- 02-0023-00 Hard hat with mounting hardware

## For More Information

### In U.S.

Technical Assistance  
1-800-243-4630

Customer Care Center  
1-800-328-1667

### In Canada

Technical Assistance  
1-800-267-4414

Customer Care Center  
1-800-364-3577

### Internet

www.Speedglas.com  
www.3M.com/Occsafety



## General Offices

3M Center  
St. Paul, MN 55144-1000

## 3M Canada Company

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