



3M™ Speedglas™ Welding Helmet 9002NC

Description

- Easy to operate and maintain.
- Slim design on helmet.
- Is suitable for most welding applications up to Shade 12 in the dark state.
- Has permanent protection (Shade 12 equivalent) against harmful UV- and IR- radiation, regardless of whether the filter is in the light or dark state or whether the auto-darkening function is operational.
- Exhaust vent to help reduce heat, humidity, and fogging.
- Has excellent visibility in light state, shade 3, for easy welding preparation and after treatment.
- Multiple adjustments for highest comfort on helmet and headband.
- Can be used in conjunction with many reusable and maintenance-free respirators for welding.



Common Applications

When used with recommended filters, are designed for most welding processes such as:

- MMA
- MIG/MAG
- TIG
- Plasma welding

IMPORTANT NOTE

Always wear ANSI approved safety spectacles as primary eye protection. Welding helmets are considered secondary eye protection.

Approvals/Standards

- ANSI Z87.1
- ANSI Z89.1 (when used with a hard hat)
- CSA Z94.3

Equipment Markings

Additional Markings



Shall be disposed of as electrical and electronic waste



Read the instructions before use

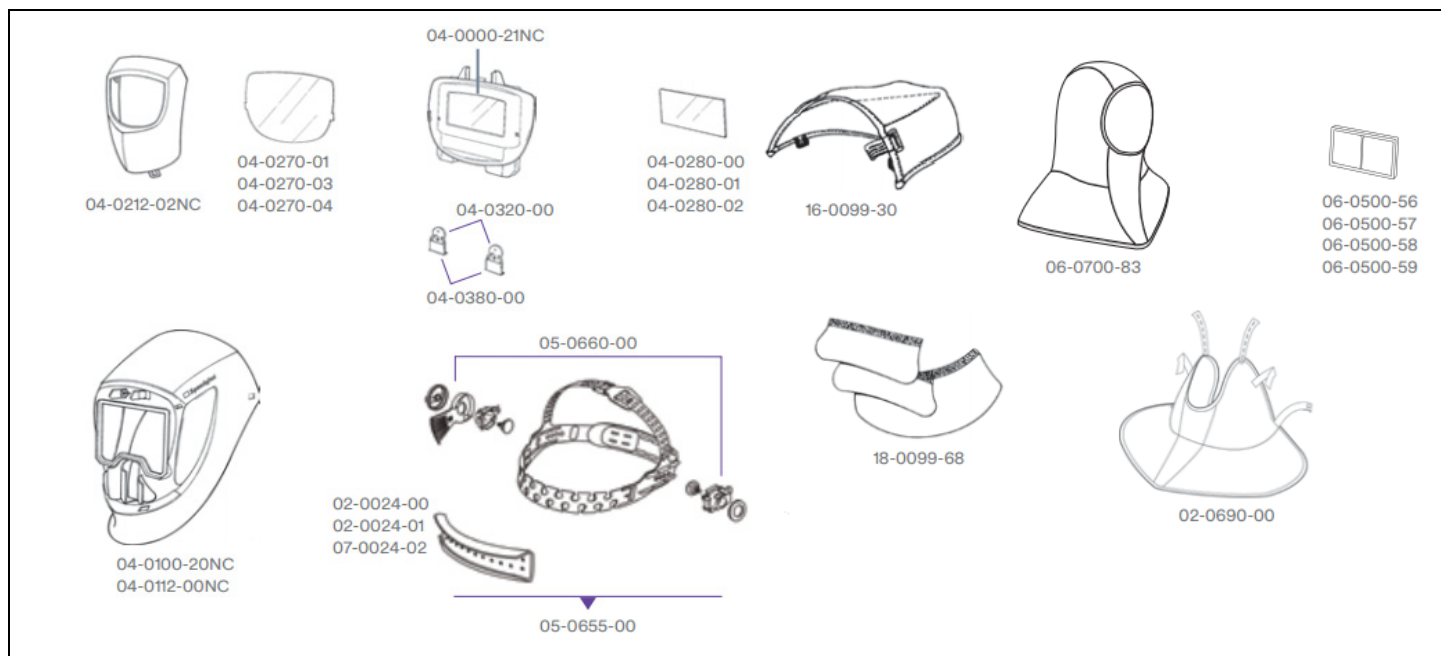
Limitations of Use

- Only use with original 3M branded spare parts and accessories listed in the user instructions and within the usage conditions given in the technical specifications.
- The use of substitute components, decals, paint or other modifications not specified in these user instructions might seriously impair protection and may invalidate claims under the warranty or cause the product to be noncompliant with protection classifications and approvals.
- Eye protectors worn over standard ophthalmic spectacles may transmit impacts thus creating a hazard to the wearer.
- Use of this product in applications outside its intended use, such as laser welding/cutting, may result in permanent eye injury and vision loss.
- Severe burn injuries may result if these welding helmets are used for heavy-duty overhead welding applications where there is a potential for falling molten metal.
- Should the product fail to switch to the dark state in response to an arc, stop welding immediately and inspect the welding filter as described in the instructions. Continued use of a welding filter that fails to switch to the dark state may cause temporary vision loss. If the problem cannot be identified and corrected, do not use the welding filter, contact your supervisor, distributor or 3M for assistance.
- Materials which may come into contact with the wearer's skin are not known to cause allergic reactions to the majority of individuals. These products do not contain components made from natural rubber latex.
- Flashing light sources (i.e. flash tube strobe lights, safety warning lights, etc.) can trigger the welding filter causing it to flash even when no welding is occurring. This is inherent with all auto-darkening filter technology. This interference can occur from long distances and/or from reflected light.
- Welding areas must be shielded from such interference, or replace lights with an LED strobe light.

Technical Specifications

Description	Value
Approximate Weight Welding helmet Filter Headband	235 g (8.3 oz) 160 g (5.6 oz) 90 g (3.2 oz)
Viewing Area	2.13 x 4.21 in (54 x 107 mm)
Switching Time (light-dark)	0.1 ms (+23° C)
UV/IR Protection	Shade 12 (permanent)
Light State	Shade 3
Dark State	Shade 8-12
Fail/Safe State	Shade 5
Battery Type	Lithium 3V Type CR2032 (2)
Battery Lifetime	2000 hrs
Operating Temperature	23°F to 131°F (-5°C to +55°C)
Head Size	50 – 64 cm (6.25 - 8 in)
Material Shield: Front cover: Headband: Filter: Protection/cover plate:	PA PA PA PA PC

Spare Parts and Accessories



Part Number	Description	Part Number	Description
02-0024-00	Sweatband, cotton fleece with padding	04-0280-01	Inside protection plate, +1 shade, 5/case
02-0024-01	Sweatband, leather	04-0280-02	Inside protection plate, +2 shade, 5/case
02-0690-00	Throat protection, black/grey	04-0290-00	Inside protection plate for welding filters
04-0100-20NC	3M™ Speedglas™ Welding Helmet 9002NC	04-0320-00	Battery, 2/case
04-0112-00NC	3M™ Speedglas™ Welding Helmet 9000 without ADF welding filter	04-0380-00	Battery holders blue, 2/case
04-0000-21NC	3M™ Speedglas™ Welding Filter	05-0650-00	Headband with assembly parts
04-0212-02NC	3M™ Speedglas™ Front Panel	05-0660-00	Assembly parts for headband
04-0270-01	Outside protection plate, 10/case	06-0700-83	Full hood black/grey
04-0270-03	Outside protection plate, scratch resistant, 10/case	07-0024-02	Sweatband fleece, 2/case
04-0270-04	Outside protection plate, high temperature, 10/case	16-0099-30	Headcover, FR cotton
04-0280-00	Inside protection plate, 5/case	18-0099-68	Throat and side protector, leather

IMPORTANT NOTE

Before use, the wearer must read and understand the *User Instructions* provided as part of the product packaging.

Personal Safety Division

3M Center, Building 235-2W-70
St. Paul, MN 55144-1000

3M PSD products are
occupational use only.

In United States of America

Technical Service: 1-800-243-4630
Customer Service: 1-800-328-1667
3M.com/workersafety

In Canada

Technical Service: 1-800-267-4414
Customer Service: 1-800-364-3577
3M.ca/Safety

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