



## 3M™ Speedglas™ Heavy Duty Welding Helmet G5-01



### Product Description

- Adjustable air flow distribution
- Attachment system for additional protective accessories
- TAP function suitable for cutting (shade 5)
- Class TH3 CE, NPF 500
- Flip-up welding helmet suitable for grinding
- Task light as an accessory, powered by 3M™ Adflo™ Battery

### Applications


The product helps protect the wearer's eyes and face from sparks, spatter, harmful ultraviolet radiation (UV) and infrared radiation (IR) resulting from certain arc gas welding processes. The welding helmet also protects against certain airborne contaminants when used with an approved air delivery unit. The Speedglas heavy duty welding helmet G5-01 is designed for:

- Most welding processes, such as: MMA (Stick), MIG/MAG, TIG, Low amp TIG
- Cutting
- Grinding

## Approvals

The PPE is marked and in conformity with the applicable National and European Regulations, Directives and Standards as listed in table below, which also contains information about the Authorised Body that has issued the type-Examination certificate for the PPE (Module B) and when applicable, the Authorised Body responsible for the surveillance of the quality system of the manufacturing of the PPE (Module D). The applicable type-examination Certificates and Declaration of Conformity are available at [www.3M.com/welding/certs](http://www.3M.com/welding/certs).

Table 1: Approvals

Standard/Directive/Regulation	Name																						
EN 175:1997	Personal protection - Equipment for eye and face protection during welding and allied processes																						
EN 166:2001	Personal eye protection - Specifications																						
EN 12941:1998 +A2:2008	Respiratory protective devices - Powered filtering devices incorporating a helmet or hood																						
EN ISO 16321-1:2022	Eye and face protection for occupational use Part 1: General requirements																						
EN ISO16321-2:2021	<p>Eye and face protection for occupational use</p> <p>Part 2: Additional requirements for protectors used during welding and related techniques.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">EN ISO 16321</th> <th colspan="6">Tested Headform*</th> </tr> <tr> <th>1-C12</th> <th>1-S</th> <th>1-M</th> <th>1-L</th> <th>2-S</th> <th>2-M</th> <th>2-L</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>←</td> <td>√</td> <td colspan="3">→</td> <td></td> </tr> </tbody> </table> <p>*Tête factice testée, Getestete Kopfform, Testa testata, Cabezal probado, Geteste hoofdvorm, Testad huvudform, Testet hovedform, Testet hodeform, Testattu päännuoto, Testa testata, Cabeça testada, Δοκιμασμένο σχήμα κεφαλής, Testowany model głowy, Tesztelt fejforma, Testovaná forma hlavy, Testovaná forma hlavy, Preizkušeni model glave, צורת ראש נבדקת, Testitud peakuju, Pārbaudīta galvas forma, Išbandyta galvos forma, Forma capului testate, Протестированная модель головы, Перевірена модель голови, Testiran model glave, Тестван модел на глава, Testiran model glave, Test Edilmiş Kafa Şekli, Тестерілген бас пішіні, 经过测试的头模</p>	EN ISO 16321	Tested Headform*						1-C12	1-S	1-M	1-L	2-S	2-M	2-L			←	√	→			
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		←	√	→																			
(EU) 2016/425	<p>Personal Protective Equipment (PPE) Regulation</p> <p>Personal Protective Equipment Regulations (Regulation 2016/425 on personal protective equipment, as amended to apply in GB)</p>																						
Notified Body No. 0196 Module B	DIN CERTCO Gesellschaft fuer Konformitaetsbewertung mbH, Alboinstrasse 56, 12103 Berlin, Germany																						
Approved Body No. 2571 (Module B)	TUV Rheinland UK, Friars Gate (Third Floor), 1011 Stratford Road, Shirley, Solihull B90 4BN, UK																						
Notified Body No. 2797 Module B, Module D	BSI Group, The Netherlands B. V. Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands																						
Approved Body No.0086 Module B, Module D	BSI Assurance UK Ltd, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, UK																						
Australian/New Zealand Standard	Name																						
AS/NZS 1337.1:2010	Personal eye protection Part 1: Eye and face protectors for occupational applications																						
AS/NZS 1716:2012	Respiratory protective devices																						
Manufacturer 	3M Svenska AB, Ernst Hedlunds väg 35, 785 30 Gagnef, Sweden																						
EU Contact Address	3M Svenska AB, Ernst Hedlunds väg 35, 785 30 Gagnef, Sweden																						
UK Contact Address	3M UK, Cain Rd, RG12 8HT, UK																						



= Auto darkening welding filters shall be disposed of as electrical and electronic waste

## Limitations of Use

- Only use with original 3M spare parts and accessories listed in the reference leaflet and within the usage conditions given in the Technical Specification.
- 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.
- The Speedglas welding helmet is not designed for overhead welding/cutting operations when there is a risk of burns from falling molten metal.
- Do not use for respiratory protection against unknown atmospheric contaminants or when concentrations of contaminants are unknown or immediately dangerous to life or health (IDLH).
- Do not use in atmospheres containing less than 19.5% oxygen (3M definition. Individual countries may apply their own limits on oxygen deficiency. Seek advice if in doubt).
- Do not use these products in oxygen or oxygen-enriched atmospheres.
- Leave the contaminated area immediately if: Any part of the system becomes damaged, airflow into the headtop decreases or stops, breathing becomes difficult, dizziness or other distress occurs, you smell or taste contaminants or irritation occurs.
- High winds above 2 m/s, or very high work rates (where the pressure within the head top can become negative) can reduce protection. Adjust equipment as appropriate or consider an alternative form of respiratory protective device.
- Users should be clean-shaven where the respirator's face seal comes into contact with the face.
- Do not remove the welding helmet or turn off the air supply until you have vacated the contaminated area.
- Respiratory filters shall only be fitted to the turbo unit and not directly to the helmet/hood.
- 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.

## Materials

Helmet	PPA
Front frame	PPA
Visor plate	PC
Headband	PA, PP, TPE, PE

## Technical Properties

Specification	Value
Weight welding helmet (excl. headband and welding filter)	665 g
Weight headband	125 g
Viewing area visor plate	104 × 170 mm
Head sizes	50-64
Operating Conditions	-5 °C (23 °F) to +55 °C (131 °F), RH ≤ 90%, non condensing conditions
Storage Conditions	-20 °C (-4 °F) to +55 °C (131 °F), RH ≤ 90%, non-condensing conditions
Short-term storage temperature conditions, non-operating <1 month	-30 °C (-22 °F) to +60 °C (140 °F), RH ≤ 90%, non-condensing conditions
Expected service life	5 years depending on conditions of use. The product may continue to be used providing all visual inspections and pre-use checks are passed.

# 3M Personal Safety Division

## Spare Parts, Accessories, and Consumables

Part Number	Description
61 11 90	Welding Helmet G5-01, including front cover and visor frame without welding filter, without neck or head protection
61 11 95	Inner shield with airduct and airflow controls G5-01 (including visor frame)
61 01 95	Outer Shield (flip-up) incl. hinge mechanism, pivot ring and visor frame G5-01
61 30 00	Visor plate, anti-fog and hard coated, pkg. of 5
61 05 00	Front cover for inner visor G5-01
61 05 01	Front frame
19 71 55	Hinge mechanism, 1 pair G5-01
61 60 01	Outer Shield Pivot Ring G5-01
61 40 00	Face seal
61 37 00	Air duct breathing tube (short) incl. holder
61 37 01	Holder for breathing tube
16 90 40	Neck protection, rigid
19 90 41	Neck protection, fabric (small)
16 90 42	Neck protection, fabric (large)
16 90 43	Neck protection, leather
16 90 20	Head cover, fabric
16 90 21	Head cover fluorescent yellow
16 90 22	Head cover, leather
16 90 23	Head cover, fabric (large)
16 90 24	Scrapeguard
16 90 30	Shroud
16 90 35	Extended Protection kit (shroud and large head cover, fabric)
16 91 00	Protective hood, fabric
61 32 00	Headband with assembly parts
61 60 00	Pivot and sliding mechanism, including pivot knobs
61 60 02	Pivot knob
61 60 03	Headband back part
53 62 10	Head rest, small
53 62 11	Head rest, large
19 80 16	Sweatband towelling, pkg of 3
19 80 17	Sweatband fleecy cotton, pkg of 3
19 80 18	Sweatband leather, pkg of 1
16 92 00	Task Light, including mounting parts and cables
16 92 10	Long power cable for Task Light
16 92 11	Short power cable for Task Light
16 92 05	Protection plate for task light, pkg. of 5
16 92 17	Task light
79 01 05	Carry Bag

## IMPORTANT NOTICE

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product, it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.



### Personal Safety Division

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