



3M™ Speedglas™ Welding Helmet G5-03 E



Product Description

- Additional protective accessories (optional)
- Suitable for grinding and cutting
- Task light as an accessory, powered by a separate head band mounted battery
- Lightweight and well balanced
- Slim and smooth with no protruding parts

Applications

This 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 Speedglas welding helmet G5-03E is designed for:


- Most welding processes, such as: MMA (Stick), MIG/MAG, and 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.

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Table 1: Approvals

Standard/Directive/ Regulation	Name																						
EN ISO 16321-1:2022	Eye and face protection for occupational use Part 1: General requirements																						
EN ISO 16321-2:2021	<div>Eye and face protection for occupational use</div> <div>Part 2: Additional requirements for protectors used during welding and related techniques</div> <div><table><tr><td rowspan="3">EN ISO 16321</td><td colspan="7">Tested Headform*</td></tr><tr><td>1-C12</td><td>1-S</td><td>1-M</td><td>1-L</td><td>2-S</td><td>2-M</td><td>2-L</td></tr><tr><td></td><td>←</td><td>✓</td><td colspan="4">→</td></tr></table></div> <div>*Tête factice testée, Getestete Kopfform, Testa testata, Cabezal probado, Geteste hoofdvorm, Testad huvudform, Testet hovedform, Testet hodeform, Testattu päämuoto, 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</div>	EN ISO 16321	Tested Headform*							1-C12	1-S	1-M	1-L	2-S	2-M	2-L		←	✓	→			
EN ISO 16321	Tested Headform*																						
	1-C12		1-S	1-M	1-L	2-S	2-M	2-L															
		←	✓	→																			
(EU) 2016/425	<div>Personal Protective Equipment (PPE) Regulation</div> <div>Personal Protective Equipment Regulations (Regulation 2016/425 on personal protective equipment, as amended to apply in GB)</div>																						
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																						
Australian/New Zealand Standard	Name																						
AS/NZS 1337.1:2010	Personal eye protection Part 1: Eye and face protectors for occupational applications																						
<div></div> <div>Manufacturer</div>	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.

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- The Speedglas welding helmet is not designed for overhead welding/cutting operations when there is a risk of burns from falling molten metal.
- 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.
- This product is not a respirator. Welding may produce high levels of welding fume or other airborne contaminants which may exceed the Occupational Exposure Limit (OEL). As a result, users and their employer must determine the expected hazards, and if needed select appropriate respiratory protection. Properly selected, used, and maintained respirators in a full respiratory protection program help protect against certain airborne contaminants by reducing airborne concentrations in the wearer's breathing zone below the OEL. Failure to use respirators or misuse of respirators may result in overexposure to contaminants and lead to sickness or death.

Materials

Helmet	PPA
Front frame	PPA
Head band	PA, PP, TPE, PE

Technical Properties

Specification	Value
Weight welding helmet (excl. headband and welding filter)	220 g
Weight headband	110 g
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	
Welding helmet	-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

Spare Parts, Accessories, and Consumables

Part number	Description
16 40 05	Ear and neck protection in leather
16 75 20	Sweatband, toweling, purple, pkg of 2
16 76 00	Sweatband, toweling, purple, pkg of 20
16 80 00	Sweatband, leather
16 80 10	Sweatband, fleecy cotton (length 24cm), pkg of 2
16 80 12	Sweatband, fleecy cotton (length 21cm), pkg of 2
16 90 01	Neck protection
16 90 05	Head cover, fabric
16 91 00	Hood
16 92 05	Protection plate for task light, pkg of 5
16 92 15	Task Light Kit, (light, cable, holder with cable and battery)
19 92 16	Welding helmet task light holder for battery with attachment parts

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Part number	Description
16 92 17	Task light
ACK081B	Rechargeable battery
AL2AI/SP	Battery charging cable for ACK081B
63 00 10	Speedglas welding filter G5-01/03NC
61 00 21	Speedglas welding filter G5-01/03TW
61 00 31	Speedglas welding filter G5-01/03VC
61 00 11	Passive welding filter kit G5-01/03, shade 11
61 05 01	Front frame
70 50 20	Headband with assembly parts
70 60 30	Assembly parts for headband
53 62 10	Head rest, small
53 62 11	Head rest, large
63 10 95	Welding Helmet G5-03 E, without welding filter, front frame and headband

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.



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