TECHNICAL DATASHEET

3M™ 2890 Series

Safety Goggles – Indirectly Ventilated and Sealed Versions

PRODUCT DESCRIPTION

The 3M™ 2890 Series includes three indirectly ventilated goggles (2890, 2890A and 2891-SGAF) and four sealed versions (2890S, 2890SA, 2895S and 2891S-SGAF).

All except 2895S feature a clear lens for protection against UV light. The 2895S features a Shade 5 lens for gas welding and cutting.

The 2891-SGAF and 2891S-SGAF lenses have a 3M™ Scotchgard™ coating giving an enhanced level of anti-scratch (AS) and anti-fog (AF) protection meeting K rating for anti-scratch (AS) and N rating for anti-fog (AF) as per EN 166:2001.



2890



2891-SGAF

KEY FEATURES

- Optical Class 1 Lens for Prolonged Use
- Modern Slim Design
- Wide Adjustable Strap for Comfortable Fit
- Pivoting Ratchet for Individual Adjustment and Fit
- Indirect Ventilation to Improve Air Circulation and Reduce Fogging in Hot/Humid Conditions (2890/2890A/2891-SGAF)
- Additional Protection Against Gas and Fine Particles (2890S/2890SA/2895S/2891S-SGAF)
- Acetate Lens Option for Increased Chemical Resistance (2890A/2890SA)
- Can Be Worn Over Prescription Spectacles
- Weight 99 g
- Replacement Acetate Lens

TYPICAL APPLICATIONS

These products may be suitable for use in a wide variety of applications including:

- Construction
- Pharmaceutical
- General Laboratory
- Electronic Component Manufacture
- General Assembly
- Industrial Manufacturing
- DIY

USE LIMITATION

- Never modify or alter this product.
- Do not use this product against hazards other than those specified in this document.
- Always ensure that the correct replacement lens is used.

PRODUCT RANGE

3M™ 2890	Indirectly ventilated, clear polycarbonate lens
3M™ 2890A	Indirectly ventilated, clear acetate lens
3M™ 2890S	Sealed, clear polycarbonate lens
3M™ 2890SA	Sealed, clear acetate lens
3M™ 2895S	Sealed, welding shade 5 polycarbonate lens
3M™ 2891-SGAF	Indirectly ventilated, clear polycarbonate lens with Scotchgard™ coating
3M™ 2891S-SGAF	Sealed, clear polycarbonate lens with Scotchgard™ coating

INTENDED USE

These products are intended for protection against a variety of hazards including liquid droplets (3), large dust particles (4), gas and fine particles (5), molten metal and hot solids (9), low-energy impact (F) and medium-energy impact (B) at extremes of temperature -5 °C and +55 °C (T) in accordance with EN 166:2001.

These products also help protect against UV radiation in accordance with EN 170:2002.

The 2891-SGAF and 2891S-SGAF lenses are also intended to give an enhanced level of protection against fogging and scratching from the 3M™ Scotchgard™ coating, which meets K rating for anti-scratch (AS) and N rating for anti-fog (AF) as per EN 166:2001.

NOTE: The 2895S lenses are assessed against EN 169:2002 for transmittance against welding filters. This product protects against high-speed impact at medium energy at room temperature only.

STANDARDS AND APPROVAL

These products are type examined by BSI Group, Notified Body number 2797.

These products are CE marked to the requirements of European Regulation (EU) 2016/425.

The applicable legislation can be determined by reviewing the Certificate and Declaration of Conformity at www.3M.com/Eye/certs

MATERIALS LISTING

COMPONENT	MATERIAL
Lens (2890 / 2890S / 2895S / 2891-SGAF / 2891S-SGAF)	Polycarbonate
Lens (2890A / 2890SA)	Acetate
Frame	PVC
Temple Attachment	Nylon
Headband	Polyester

REPLACEMENT PART

3M™ 289A	Acetate Replacement Lens

MARKING

The products have demonstrated compliance with the requirements of EN 166:2001 and associated standards and bear the following marks:

PRODUCT REF.	DESCRIPTION	LENS	LENS MARKING	FRAME MARKING
3M™ 2890	2890 Goggle PC Clear AS/AF	Clear PC	2C-1.2C 3M 1 BT KN	3M EN166 3 4 BT CE
3M™ 2890A	2890A Goggle Acetate AF	Clear Acetate	2C-1.2 3M 1 FT N	3M EN166 3 4 FT CE
3M™ 2890S	2890S Goggle Sealed PC AS/AF	Clear PC	2C-1.2C 3M 1 BT KN	3M EN166 3 4 5 BT CE
3M™ 2890SA	2890SA Goggle Sealed Acetate AF	Clear Acetate	2C-1.2 3M 1 FT N	3M EN166 3 4 5 FT CE
3M™ 2895S	2895S Welding Goggle PC Shade 5 AS/AF	Welding PC	5 3M 1 B K N	3M EN166 3 4 5 B CE
3M™ 2891-SGAF	2891-SGAF Goggle PC Clear SGAF	Clear PC	2C-1.2C 3M 1 BT 9 K N	3M EN166 3 4 9 BT CE
3M™ 2891S-SGAF	2891S-SGAF Goggle PC Clear SGAF	Clear PC	2C-1.2C 3M 1 BT 9 K N	3M EN166 3 4 5 9 BT CE

EXPLANATION OF MARKING

MARKING	DESCRIPTION		
2C-1.2 (EN 170:2002)	UV protection with good colour recognition. This product conforms to the requirements of the standard, providing UV protection for the complete specified range (210–365 nm).		
5-2.5 (EN 172:1994 (as amended))	Sun-glare protection conforming to the requirements of the standard, providing UV protection for the complete specified range (280–350 nm).		
5 (EN 169:2002)	Welding lens providing protection against UV for the specified range (210–365 nm) and IR protection for the specified range (780–2000 nm).		
1	Optical class	**F**	Impact protection against high-speed particles at low energy (45 m/s)
B	Impact protection against high-speed particles at medium energy (120 m/s)	**T**	Tested for impact protection at extreme temperature conditions -5 °C and +55 °C
K	Resistance to surface damage by fine particles	**N**	Resistance to fogging

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. For more information on 3M products and services please contact 3M. Personal Safety Division · 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire RG12 8HT · t: 0870 60 800 60 · www.3M.eu/Safety · Please recycle. Printed in the UK. © 3M 2019. 3M and Scotchgard are trademarks of 3M Company. All rights reserved. J469728

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