

3M Science.
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3M™ SecureFit™ SF100 Series Safety Glasses

Technical datasheet



Product description

The 3M™ SecureFit™ 100 is a safety spectacle with:

- ▶ Slim frame
- ▶ 3M™ Pressure Diffusion Temple Technology
- ▶ Lens shades in clear, grey, amber, and indoor/outdoor grey
- ▶ All lens options available with anti-scratch/anti-fog coatings
- ▶ Typical weight: 20g

Key features

- ▶ Optical class 1 lens for prolonged use
- ▶ Single piece ocular lens
- ▶ Rimless ocular frame
- ▶ Frame colours in either black or blue for clear lens versions, or blue frame for other lens shades
- ▶ Low energy Impact Protection (F) at Extremes of Temperature (T) in accordance with EN 166
- ▶ Offers protection against UV radiation

Product range

Product ID	Product reference	Product description	Lens shade	Frame colour	Lens coating
7100244046	SF101AS-BLK	Black frame, anti-scratch coating, clear lens, SF101AS-BLK-EU	Clear	Black	AS
7100244060	SF101AF-BLK	Black frame, anti-scratch/anti-fog coating, clear lens, SF101AF-BLK-EU	Clear	Black	AS-AF
7100244064	SF101AF-BLU	Blue frame, anti-scratch/anti-fog coating, clear lens, SF101AF-BLU-EU	Clear	Blue	AS-AF
7100244047	SF101AS-BLU	Blue frame, anti-scratch coating, clear lens, SF101AS-BLU-EU	Clear	Blue	AS
7100244048	SF102AF-BLU	Blue frame, anti-scratch/anti-fog coating, grey lens, SF102AF-BLU-EU	Grey	Blue	AS-AF
7100243969	SF103AF-BLU	Blue frame, anti-scratch/anti-fog coating, amber lens, SF103AF-BLU-EU	Amber	Blue	AS-AF
7100244061	SF107AF-BLU	Blue frame, anti-scratch/anti-fog coating, indoor/outdoor grey, SF107AF-BLU-EU	Indoor/ outdoor grey	Blue	AS-AF

I/O = Indoor/Outdoor AF = Anti-Fog AS = Anti-Scratch

Typical applications

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

- ▶ Industrial manufacturing
- ▶ Metal working
- ▶ Construction
- ▶ Food industry
- ▶ Pharmaceutical
- ▶ General laboratory

Intended use

These products are intended for protection against a variety of hazards including low energy impact (F) 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 (clear and amber lenses), and sun glare in accordance with EN 172:1994 (grey and indoor/outdoor lenses).

A number of lens options are available for a variety of different applications:

- ▶ Clear – good colour recognition and excellent UV protection
- ▶ Grey – protection from sunglare
- ▶ Amber – enhanced contrast in low light conditions
- ▶ Indoor/outdoor – perfect for workers that move in and out of strong sunlight

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Use limitation

- ▶ Never modify or alter this product
- ▶ Do not use this product against hazards other than those specified in this document
- ▶ These products are not suitable for grinding or welding
- ▶ These products are NOT designed to be worn over prescription spectacles

Standards and approval

These products are type examined by Certottica SCRL, Ufficio Commerciale - test e certificazione, ZI Villanova K32013 Longarone BL, Italy, (Notified body number 0530).

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	Polycarbonate
Frame	Polycarbonate/polyester
Screws	Stainless steel

Marking

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

Product ref (short ID)	Lens marking	Frame marking
SF101AS-BLK	2C-1.2 3M 1 FT	3M EN 166 FT
SF101AF-BLK	2C-1.2 3M 1 FT	3M EN 166 FT
SF101AF-BLU	2C-1.2 3M 1 FT	3M EN 166 FT
SF101AS-BLU	2C-1.2 3M 1 FT	3M EN 166 FT
SF102AF-BLU	5-3.1 3M 1 FT	3M EN 166 FT
SF103AF-BLU	2C-1.2 3M 1 FT	3M EN 166 FT
SF107AF-BLU	5-1.7 3M 1 FT	3M EN 166 FT

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 (210nm – 365nm)
5-1.7, and 5-3.1 (EN 172:1994 (as amended))	Sun-glare protection conforming to the requirements of the standard, providing UV protection for the complete specified range (280nm – 350nm)
1	Optical class
F	Impact protection against high speed particle at low energy (45m/s)
T	Tested for impact protection at extreme temperature conditions -5°C and +55°C

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.

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