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## 3M™ SecureFit™ SF500 Series Safety Glasses

Technical datasheet



### Product description

The 3M™ SecureFit™ 500 is a safety spectacle with:

- ▶ Slim frame
- ▶ 3M™ Pressure Diffusion Temple Technology
- ▶ The 3M™ Scotchgard™ anti-fog coating has been added to some models in the SF500 series. This coating resists fogging longer than traditional anti-fog coatings, up to 25 washes with water\*
- ▶ It helps provide durable scratch resistance in tough work environments
- ▶ The 3M™ Scotchgard™ anti-fog coating is tested to EN 168 K&N for anti-fog and anti-scratch performance
- ▶ Anti-scratch plus option on clear lens and welding shades 1.7, 3.0 and 5.0
- ▶ Lens shades in clear, grey, amber, brown or light brown
- ▶ Lens options in indoor/outdoor grey or silver mirror with anti-fog/anti-scratch coatings
- ▶ Optional foam gasket
- ▶ Typical weight: 22g or 27g with foam gasket

\*3M internal testing per EN 168 test method when compared with traditional anti-fog coatings.

### Key features

- ▶ Optical class 1 lens for prolonged use
- ▶ Single piece ocular lens
- ▶ Rimless ocular frame
- ▶ Adjustable ratchet temples. Multiple position ratchet allows user to adjust lens for facial features and eyeglass position
- ▶ Frame colours in either black, green, red or dark green
- ▶ Low energy Impact Protection (F) at Extremes of Temperature (T) in accordance with EN 166
- ▶ 3M™ Scotchgard™ anti-fog coating providing protection against fogging and scratching, meeting K & N marking requirements of EN 166
- ▶ Polycarbonate lenses labeled UV400 absorb 99.9% of UVA, UVB, and UVC rays between 200 nm and 400 nm
- ▶ 3M™ Scotchgard™ anti-fog coating provides scratch resistance and durability, even after multiple washes
- ▶ Anti-Scratch Plus (ASP) lens options to give enhanced anti-scratch protection, meeting K marking requirement of EN 166

### Key features

- ▶ Removable foam lined insert helps keep debris out of your eyes while providing comfort and cushioning
- ▶ Easily removed for cleaning or to alternate between wearing modes
- ▶ Small vents in the insert can help reduce fogging
- ▶ Insert can be washed with mild soap and water as required

### 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
- ▶ Certain welding applications (1.7, 3.0 and 5.0 lens options)
- ▶ Harsh environments e.g. cement, construction – ASP option

### 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, brown and indoor/outdoor lenses).

The SF500 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.

Lenses with the Anti-Scratch Plus (ASP) coating are intended to give an enhanced level of protection against scratching and meets K rating for anti-scratch (AS) as per EN 166:2001.

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
- ▶ Brown – for bright conditions and to improve contrast and clarity
- ▶ IR lenses – 1.7, 3.0 and 5.0 – certain welding, cutting and torchwork applications
- ▶ ASP lenses – certain harsh environments

## 3M™ SecureFit™ SF500 Series Safety Glasses

### Product range

Product ID	Product reference	Product description	Lens shade	Frame colour	Lens coating
7100243934	SF501SGAF-RED	Red frame, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), clear lens, SF501SGAF-RED-EU	Clear	Red	SGAF
7100243142	SF501SGAF-BLK	Black frame, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), clear lens, SF501SGAF-BLK-EU	Clear	Black	SGAF
7100243964	SF501SGAF-BLK-FM	Black frame, foam, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), clear lens, SF501SGAF-BLK-FM-EU	Clear	Black	SGAF
7100244201	SF502SGAF-BLK	Black frame, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), grey lens, SF502SGAF-BLK-EU	Grey	Black	SGAF
7100243995	SF507SGAF-BLK	Black frame, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), Indoor/Outdoor Light Grey lens, SF507SGAF-BLK-EU	I/O light grey	Black	SGAF
7100243971	SF501SGAF-GRN	Green frame, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), clear lens, SF501SGAF-GRN-EU	Clear	Green	SGAF
7100243980	SF503SGAF-BLK	Black frame, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), amber lens, SF503SGAF-BLK-EU	Amber	Black	SGAF
7100244022	SF505SGAF-DGR	Dark green frame, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), brown lens, SF505SGAF-DGR-EU	Brown	Dark green	SGAF
7100244062	SF528SGAF-DGR	Dark green frame, 3M™ Scotchgard™ anti-fog/anti-scratch coating (K&N), light brown lens, SF528SGAF-DGR-EU	Light brown	Dark green	SGAF
7100243963	SF509AF-BLK	Black frame, anti-scratch/anti-fog clear silver mirror lens, SF509AF-BLK-EU	Silver mirror	Black	AS-AF
7100244045	SF501AF-BLK	Black frame, anti-scratch/anti-fog clear lens, SF501AF-BLK-EU	Clear	Black	AS-AF
7100243979	SF501ASP-BLK	Black frame, anti-scratch+ (K), clear lens, SF501ASP-BLK-EU	Clear	Black	ASP
7100243977	SF517ASP-GRN	Green/black frame, anti-scratch + (K), IR 1.7 grey lens, SF517ASP-GRN-EU	IR 1.7 grey	Green/black	ASP
7100243989	SF530ASP-GRN	Green/black frame, anti-scratch + (K), IR 3.0 grey lens, SF530ASP-GRN-EU	IR 3.0 grey	Green/black	ASP
7100243978	SF550ASP-GRN	Green/black frame, anti-scratch + (K), IR 5.0 grey lens, SF550ASP-GRN-EU	IR 5.0	Green/black	ASP
7100243943	SF500-FOAM	3M™ SecureFit™ 500 foam insert, S500-FOAM-EU	N/A	N/A	N/A

SGAF = ScotchGard™ anti-fog coating I/O = Indoor/outdoor AF = anti-fog AS = Anti-scratch ASP = Anti-scratch plus

### 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](http://www.3M.com/Eye/certs)

### Materials listing

Component	Material
Lens	Polycarbonate
Frame	Polycarbonate/polyester
Temple end pieces	Nylon
Gasket frame	Nylon
Gasket	EVA foam
Screws	Stainless steel