

3M™ SecureFit™ Protective Eyewear Series

Technical Data Sheet



Description

3M™ SecureFit™ Protective Eyewear Series comes with a variety of features, because having options in protective eyewear can be critical. Workers can choose from several lenses coating options, including 3M™ Anti-fog, and features like a removable foam gasket that combines with Pressure Diffusion Temple (PDT) Technology to create a secure and comfortable fit. Utilising a contemporary lens shape, this sporty model also offers self-adjusting coloured temples and a variety of lens tints and is available in 5 models, that is, SF100, SF200, SF400 and SF500 Series Safety Glasses. The 3M™ SecureFit™ 500 model also features Scotchgard™ Protector Anti-fog coating.

Key Features

- Pressure Diffusion Temple (PDT) technology
- Curved temples for enhanced security.
- Several coating options including standard anti-scratch (AS), and standard Anti-Fog/Anti-Scratch (AF) and 3M™ Scotchgard™ Protector Anti-Fog (SGAF).
- U6 rated polycarbonate lenses absorb 99.9% of UVA, UVB, and UVC rays between 200 nm and 380 nm.
- Sporty design with contemporary lens shape.
- SF400 and SF500 eyewear- removable foam-lined gasket helps limit eye exposure to dust and debris while providing added comfort and cushioning*.
- Adjustable ratchet temples allow user to adjust lens for facial features and eyeglass position.
- Flat and flexible temple design combines well with 3M™ Protective Earmuffs.
- SF100, SF200 and SF500 comes with molded nose bridge whereas SF400 features soft, adjustable, one-piece nose bridge for an individual comfortable fit.



3M™ Pressure Diffusion Temple Technology

- 3M's innovative temple design features slotted ribs that provide comfortable pressure equalisation.
- Temples flex and self-adjust to the size and shape of wearer's head.



3M™ SecureFit 500 Eyewear features Adjustable Ratchet Temples

- Multiple position ratchet allows user to adjust lens for facial features and eyeglass position.
- Adjustable ratcheting temples are designed to help improve the positioning of eyewear when worn with half-facepiece respirators.



Curved Temples for Enhanced Security

- Eyewear design applies pressure on the less sensitive back of the head instead of temples.
- Helps achieve a comfortable fit, even during rapid head movement.



3M™ SecureFit 500 model features Scotchgard™ Protector Anti-fog coating.

- Resists fogging longer than traditional anti-fog coatings through up to 25 washings with water*
- Helps provide scratch resistance in tough work environments.
- Designed for working in challenging situations, such as hot and humid conditions, indoor/outdoor work, physically demanding tasks and climate-controlled areas.

*Based on 3M Internal testing per EN168 test method when compared with traditional anti-fog coatings.



Clear

Highest visual acuity and colour recognition



Grey

Reduces overall brightness of visible light



Amber

Increases contrast by filtering hazy and blue-coloured light



Indoor/Outdoor

Slightly reduces overall brightness of visible light



Mirrored

Reflects light sources, helping reduce brightness



Brown

Reduces overall brightness, typically allowing colour recognition



Light brown

Reduces the transmission of artificial blue light in indoor environments while maintaining colour recognition

Applications

The range covers a variety of hazards and specific tasks. These products can be used in a wide range of applications including Painting, Plastering and other forms of DIY, Foundry work, Engineering, General assembly, Woodworking and Construction.

Standards

3M™ SecureFit™ Protective Eyewear Series have been tested and certified to AS/NZS 1337.1:2010 and have a medium impact (I) rating.

Maintenance/cleaning

If the lens becomes scratched or pitted it should be replaced. Avoid exposure or contact of the lens with vapour or liquids which may cause surface crazing and reduce the impact resistance. Inspect and clean the spectacles regularly and replace if broken or damaged.

Thoroughly clean all surfaces with lens cleaner or mild soap solution. Do not clean spectacle with solvents. Air dry or pat dry with clean, soft cloth or tissue. The use of solvents, harsh detergents or abrasives is not recommended. Avoid exposure to MEK, Sulphuric Acid, Methylene Chloride, Toluene, Paint Thinner & Acetone.

Disposal

As the 3M™ SecureFit™ Protective Eyewear Series and their components are subject to dirt, dusts and liquids, etc, they cannot be recycled. If the product is to be disposed of, it should be disassembled and disposed of as solid waste. Please see local authority regulations for disposal advice and locations.

Specifications

SecureFit™ Protective Eyewear Series	
Frame	Polycarbonate
Side Arms	Polycarbonate, padded touch points
Weight	21g
Lens Material	Polycarbonate
Lens Types	Clear, Grey, Amber, Brown, Light Brown, Indoor/Outdoor
Ratings	Medium Impact

Lens Markings

Markings on eye protectors are a requirement for certification. It assists users in identifying their intended use. They are identified by the following:

Standard	Lens Marking	Explanations
AS/NZS 1337.1:2010	I = Medium Impact O = Outdoor/Indoor (untinted or amber)	OUTDOOR UNTINTED (FOR INDOOR AND OUTDOOR USE) These protectors are intended for indoor and outdoor use where no optical radiation hazards exist other than solar radiation.
	I = Medium Impact (outdoor tinted, smoke, brown or photo chromatic)	OUTDOOR TINTED These protectors are intended for outdoor use where no optical radiation hazards exist other than solar radiation. They are intended to provide adequate protection against sun glare and ultraviolet radiation from the sun.



















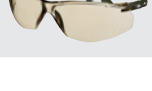
Impact protection is determined by the test velocity of a steel ball projectile. A ballistic test rig fires either a 6.00mm or a 6.35mm projectile ball at speeds from 12m, up to 190m per second.

Standard	Rating	Impact Protection Situations	Type of Protection
AS/NZS 1336:2014	Low Impact	Hammering, handling wire, brick chipping by hand	Spectacles
AS/NZS 1336:2014	Medium Impact	Grinding, machining metals, woodworking	Spectacles, Eyeshields or lightweight visor systems
AS/NZS 1336:2014	High Impact	Concrete cutting, high speed disc grinding, metal cutting	Visor systems only
AS/NZS 1336:2014	Extra High Impact	Abrasive shot blasting, ballistic, military, electrical maintenance	Visor systems only

Australian/New Zealand Standards AS/NZS 1336:2014 is an excellent reference document and provides assistance.

Medium impact safety spectacles provide protection from medium energy flying particles. For more information on tinted lenses and compliance testing to AS/NZS 1067 (sunglass standard) contact 3M.

Ordering Information

3M Code	Model #	Description	
AT019494601	SF101AF-BLK	Polycarbonate Clear Anti-Fog Anti-Scratch Lens	
AT019494619	SF101AS-BLK	Polycarbonate Clear Anti-Scratch Lens	
AT019494627	SF102AF-BLK	Polycarbonate Grey Anti-Fog-Anti-Scratch Lens	
AT019494635	SF103AF-BLK	Polycarbonate Amber Anti-Fog-Anti-Scratch Lens	
AT019494643	SF107AF-BLK	Polycarbonate Indoor Outdoor Grey Anti-Fog-Anti-Scratch Lens	
70071676269	SF201AF-AS	Polycarbonate. Clear Lens	
70071695509	SF202AF-AS	Polycarbonate. Grey Lens	
70071676368	SF401AF-AS	Polycarbonate. Clear Lens	
70071695426	SF402AF-AS	Polycarbonate. Grey Lens	
70071695434	SF410AS-AS	Polycarbonate Indoor/Outdoor Mirror Lens	
70071675345	SF-FOAM	SecureFit™ Protective Eyewear 400 Series Foam Gasket	
AT019494437	SF501AF-BLK	Polycarbonate Clear Anti-Fog-Anti-Scratch Lens	
AT019494445	SF501SGAF-BLK	Scotchgard™ Polycarbonate Clear Lens	
AT019494452	SF501SGAF-BLK-FM	Scotchgard™ Polycarbonate Clear Lens with Foam Gasket	
AT019494478	SF502SGAF-BLK	Scotchgard™ Polycarbonate Grey Lens	
AT019494494	SF503SGAF-BLK	Scotchgard™ Polycarbonate Amber Lens	
AT019494528	SF507SGAF-BLK	Scotchgard™ Polycarbonate Indoor Outdoor Grey Lens	
AT019494502	SF505SGAF-DGR	Scotchgard™ Polycarbonate Brown Lens	
AT019494569	SF528SGAF-DGR	Scotchgard™ Polycarbonate Light Brown Lens	

Important Notice

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