

3M™ Solus™ 1000 Series

Technical Data Sheet

Description

3M™ Solus™ 1000 series protective eyewear features Scotchgard™ Anti-Fog lens coating which helps workers see clearly, longer – providing longer lasting fog resistance than traditional anti-fog coatings. Removable temples enable the use of the optional strap. Optional foam gasket helps reduce eye exposure.

3M™ Scotchgard™ Anti-Fog Technology brings higher anti-fog performance* to safety eyewear, helping workers see more clearly to complete on-the-job tasks. The elastic strap and removable foam gasket are optional accessories that may be attached or removed from the eyewear depending on the preferences of the person wearing the glasses. The strap fits comfortably around the backside of the head to help keep the glasses securely in place when being worn. The removable foam gasket is also included to help reduce eye exposure. Small vents in the foam gasket help reduce fogging. Other features include removable padded temples and a soft nose bridge for added comfort. All 3M™ Solus™ series safety eyewear come with polycarbonate lenses, which absorb 99% of UV rays.

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

The Science Behind 3M™ Scotchgard™ Anti-Fog Technology
When microscopic water droplets land on lenses without any type of coating, they bead up and form condensation and fog, obscuring your vision. With 3M™ Scotchgard™ Anti-Fog Technology, the anti-fog coating produces a reduced-contact angle, flattening the water beads into a thin, transparent film of water that allows light to pass through. The 3M™ Scotchgard™ Anti-Fog Coating resists fogging longer than traditional anti-fog coatings, even after washing multiple times.

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™ Solus™ 1000 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™ Solus™ 1000 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

Solus™ 1000 Series	
Frame	Polycarbonate
Side Arms	Polycarbonate moulded
Weight	25g
Lens Material	Polycarbonate
Lens Types	Clear Grey
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, Eshields 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
70071676533	S1201SGAF-AS	With Scotchguard™ Anti-fog coating. Green/Black PC. Clear Lens
70071676541	S1202SGAF-AS	With Scotchguard™ Anti-fog coating. Green/Black PC. Grey Lens
70071694551		Replacement Foam Gasket
70071694569	SOLUS-STRAP	Replacement Strap

Important Notice

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3M Australia Pty Ltd
Personal Safety Division
 Bldg A, 1 Rivett Road
 North Ryde NSW 2113
 TechAssist Helpline: 1800 024 464
 Customer Service: 1300 363 565
 Email: techassist@mmm.com
 Web: www.3M.com/au/ppesafety

3M New Zealand Ltd
Personal Safety Division
 94 Apollo Drive, Rosedale
 Auckland 0632
 TechAssist Helpline: 0800 364 357
 Customer Service: 0800 252 627
 Email: techassist@mmm.com
 Web: www.3M.com/nz/ppesafety

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