

# 3M™ GoggleGear™ 500 Series

## Technical Data Sheet

### Description

3M™ Goggle Gear, 500-Series, Clear Scotchgard™ Anti-fog Lens resists fogging longer than traditional anti fog coatings, helping to keep vision clearer for workers on the job. The findings for the anti-fog performance of the eyewear are based on 3M internal testing per EN168 test method when compared to traditional anti-fog coatings.

The 3M™ Goggle Gear, 500-Series is a low-profile design with an adjustable strap and indirect ventilation. These splash goggles with 3M™ Scotchgard™ Anti-Fog Coating help keep lenses clear in, steamy and wet environments. The Science Behind 3M™ Scotchgard™ Anti-Fog Technology 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 anti-fogging properties are based on 3M internal testing per EN168 test method when compared to traditional anti-fog coatings. Here is how the anti-fogging properties work. 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. 3M™ Scotchgard™ Anti-Fog Coating with its active ingredient is bonded to the lens which helps the eyewear last longer. The coating retains its effectiveness for at least 25 washings with water. The coating withstands disinfection with diluted bleach soaking or alcohol wipes without losing its anti-fog performance. The 3M™ Goggle Gear, 500-Series also comes with polycarbonate lenses that absorb 99.9% of UV rays.

Prescription lens insert available for 3M™ Goggle Gear, 500-Series Splash Goggles. This lens is helpful for anyone who needs corrective vision to go along with eye protection.

### 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, Outdoor, Sporting, Light duty maintenance and repairs. Facility Sanitation, Food Processing, Food Safety, Oil & Gas, Pharmaceutical.



### Specifications

GoggleGear™ 500 Series	
Frame	Plastic
Lens Material	Polycarbonate lenses
Lens Types	Clear Scotchgard™ Anti-fog Lens
Strap Material	Neoprene
Ratings	Medium Impact

### Standards

The 3M™ GoggleGear™ 500 Series goggles have been tested and certified to AS/NZS 1337.1:2010 and have a medium impact (I) rating.

### Maintenance/cleaning

The 3M™ GoggleGear™ 500 Series goggles should be inspected for deterioration or damage before each use.

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™ GoggleGear™ 500 Series goggles 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.

## 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
70071676582	GG501NSGAF-AS GG500	GoggleGear™ 500 Series with Scotchguard™ Anti-fog coating. Polycarbonate. Clear Lens.
70071675055	GG500-P1	GoggleGear Prescription Insert

## Important Notice

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