

## 3M™ GoggleGear™ Protective Goggle 500 Series



GG501SGAF



GG501SGAF  
Shown with prescription  
insert frame installed



GG502SGAF



GG501NSGAF

### Description

3M™ GoggleGear™ Protective Goggle 500 Series feature a low-profile design with an adjustable strap, indirect ventilation, and 3M™ Scotchgard™ Protector Anti-Fog/Anti-Scratch Coating, which resists fog 11x longer and has 7x better anti-scratch performance than traditional 3M™ Anti-Fog Coating. Additionally, these goggles are D3 (droplet and splash) and D4 (dust) rated.

### Key Features

- Dielectric, no metal parts
- Polycarbonate lens absorbs 99.9% of UVA, UVB, and UVC rays between 200 nm and 380 nm
- Low-profile protective goggle with wraparound lens
- Soft goggle shroud to help seal against the face
- Cloth or neoprene adjustable strap
- Can be disassembled for cleaning
- Lens replacements available
- Prescription insert available
- Indirect venting helps reduce fogging
- ANSI/ISEA Z87.1-2020 D3 (droplet splash) and D4 (dust) rated
- Meets optional anti-fog performance ('X' mark) per ANSI/ISEA Z87.1-2020
- Models with neoprene straps can be disinfected, when necessary<sup>1</sup>

### Typical Applications

These products may be suitable for use in a wide variety of applications including, but not limited to industrial manufacturing, metal working, mining/oil and gas, construction, food industry, pharmaceutical, and general laboratory.

### Regulatory Approvals

All versions meet the requirement of ANSI/ISEA Z87.1-2020 and select versions meet the requirements of CSA Z94.3-2020.

### Storage and Cleaning

Eyewear should be stored between temperatures of 50 °F (10 °C) and 86 °F (30 °C), in dry conditions with no chemical exposure, out of any direct exposure to radiation (sunlight, IR, UV, etc.), and in non-abrasive environments. Thoroughly clean all surfaces with a mild soap solution and lukewarm water, then rinse. Dry with a soft cloth or tissue. Do not use any solvents on these lenses.

<sup>1</sup> ANSI/ISEA Z87.1-2020 testing not conducted after internal disinfection testing. See [Eye Protection for Infection Control\\_Technical Bulletin.pdf \(3m.com\)](#) for complete details

## Product Specifications

- Weight: 49 g (1.8 oz)
- Weight of lens: 19 g (0.7 oz)
- Weight of prescription insert: 2 g (0.1 oz)
- Goggle width: 155 mm
- Goggle height: 65 mm
- Lens: polycarbonate
- Frame (hard): polypropylene
- Frame (soft): TPE (thermoplastic elastomers)
- Strap (cloth): nylon/neoprene
- Strap (neoprene): neoprene
- Strap connector: nylon
- Strap buckle: polyoxymethylene
- RX insert width: 106 mm
- RX insert height: 50 mm
- RX insert: nylon

## Lens Color Options, Markings, and Light Transmittance

Lens Option	Description	Markings	Visible Light Transmitted* (380-780 nm)	UVA, UVB, UVC Blocked (200-380 nm)	Blue Light Blocked* (200-380 nm)
Clear	For general indoor applications where impact protection is required. Also helps protect against ultraviolet light. Luminous Transmittance is >85%.	3M Z87+ U6 X D3 D4  Z94.3 CSA Logo	91.3%	99.9%	10.4%
Gray	For outdoor applications where light and glare can cause eye strain and fatigue. A gray tint provides good protection from glare and helps keep distortion of colors to a minimum.	3M Z87+ U6 L3 X D3 D4	14.8%	99.9%	85.4%

\*Percentages are an average

The lenses and frames are marked in accordance with the requirements of ANSI/ISEA Z87.1-2020 and CSA Z94.3-2020.

Markings	Explanation of Markings
3M	Manufacturer's Identification
Z87	Product complies to ANSI/ISEA Z87.1-2020 standard
Z94.3	Product complies to CSA Z94.3-2020 standard
CSA Logo	Product has been tested and certified by CSA to meet the CSA Z94.3-2020 standard
+	Impact-rated spectacle (ANSI/ISEA Z87.1-2020)
U6	Scale number for UV Protection (U6 is the highest rating in ANSI/ISEA Z87.1-2020)
L3	Scale number for Visible Light Filter (ANSI/ISEA Z87.1-2020)
X	Passes optional anti-fog lens test (ANSI/ISEA Z87.1-2020)
D3	Splash/droplet protection – marked on gasket (ANSI/ISEA Z87.1-2020)
D4	Dust protection – marked on gasket (ANSI/ISEA Z87.1-2020)
Taiwan	Country of manufacture

## Prescription Insert Frame

The prescription insert frame for the 3M™ GoggleGear™ Protective Goggle 500 Series includes a printed demo lens to help ophthalmologists create a prescription lens to fit properly into the prescription insert frame.



Prescription insert frame



Printed demo lens

## Product List

Product ID SKU	Description	Lens Color	Shroud/Frame Color	Strap Type/ Color	Available US	Available Canada
GG501SGAF 7100079187	3M™ GoggleGear™ Protective Goggle 500 series, GG501SGAF, Clear Scotchgard™ Anti-fog Lens 10 ea/cs	Clear	Red/Gray	Cloth/Gray	x	x
GG501NSGAF 7100112956	3M™ GoggleGear™ Protective Goggle 500 series, GG501NSGAF Clear Scotchgard™ Anti-fog Lens, Neoprene Strap, 10 ea/cs	Clear	Red/Gray	Neoprene/Black	x	
GG502SGAF 7100168468	3M™ GoggleGear™ Protective Goggle 500 series, GG502SGAF, Gray Scotchgard™ Anti-fog Lens, 10 ea/cs	Gray	Red/Gray	Cloth/Gray	x	

## Replacement Part List

Product ID SKU	Description	Lens Color	Strap Type/Color	Available US	Available Canada
GG501SGAF-LENS 7100222787	3M™ GoggleGear™ Protective Goggle 500 series, GG501SGAF-LENS, Clear Scotchgard™ Anti-fog Replacement Lens, 20 ea/cs	Clear	NA	x	
GG500- CLTHSTRAP 7010341344	3M™ GoggleGear™ Protective Goggle 500 series, Replacement Cloth Strap, 10 ea/cs	NA	Cloth/Gray	x	
GG500-NEOSTRAP 7010316627	3M™ GoggleGear™ Protective Goggle 500 series, Replacement Neoprene Strap, 10 ea/cs	NA	Neoprene/Black	x	
GG500-PI 7100084923	3M™ GoggleGear™ Protective Goggle 500 series, GG500-PI, Prescription Insert 10 ea/cs	No lens Frame is clear	NA	x	x

## Instructions for Use

Follow all safety information contained in the applicable instructions. Misuse may result in serious injury or death. Retain user instructions on packaging for future reference.

This eyewear is intended to provide limited eye protection against flying particles or small objects. Indirectly (covered) vented or non-vented goggles may be appropriate for chemical splash and dust hazards. This product should not be used as a substitute for machine guards or other engineering controls. This product is for occupational use only. The lenses are impact resistant but not unbreakable. It is the responsibility of the employer to determine if the eyewear is suitable for the application based on the worksite hazard assessment and applicable standards. For correct use, consult supervisor and *User Instructions*, or contact 3M Technical Service in the USA at 1-800-243-4630 or in Canada at 1-800-267-4414.



### Personal Safety Division

3M Center, Building 235-2W-70  
St. Paul, MN 55144-1000

3M PSD products are  
occupational use only.

### 3M Canada

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London, Ontario  
N6A 4T1

### In United States of America

Technical Service: 1-800-243-4630

Customer Service: 1-800-328-1667

[3M.com/workersafety](http://3M.com/workersafety)

### In Canada

Technical Service: 1-800-267-4414

Customer Service: 1-800-364-3577

[3M.ca/Safety](http://3M.ca/Safety)

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