

3M™ GoggleGear™ 6000 Series Safety Goggles

Technical datasheet



Product description

The 3M™ GoggleGear™ 6000 series is a safety goggle with:

- ▶ Large profile design
- ▶ Can be worn over many prescription spectacles
- ▶ Indirect venting to help reduce fogging
- ▶ 3M™ Scotchgard™ Anti-Fog Coating
- ▶ Adjustable nylon fibre cloth headband
- ▶ Optional neoprene headband on blue frame
- ▶ Optional model with clear lens and flip-up welding shade 5 over-lens with improved colour recognition

Typical applications

These products may be suitable for use in a wide variety of applications including:

- ▶ Industrial manufacturing
- ▶ Metal working
- ▶ Mining/oil and gas
- ▶ Construction
- ▶ Food industry
- ▶ Pharmaceutical
- ▶ General laboratory

Product range

| Product ID | Description | Lens colour | Shroud/strap colour |
|-----------------|--|------------------------|---------------------|
| GG6001SGAF-BLK | 3M™ GoggleGear™ 6000 Series Safety Goggles, Black Shroud and Strap, Scotchgard™ Anti-Fog/Anti-Scratch Coating (K&N), Clear Lens | Clear | Black |
| GG6001SGAF-GRN | 3M™ GoggleGear™ 6000 Series Safety Goggles, Lime Green Shroud and Strap, Scotchgard™ Anti-Fog/Anti-Scratch Coating (K&N), Clear Lens | Clear | Lime green/black |
| GG6001SGAF-RED | 3M™ GoggleGear™ 6000 Series Safety Goggles, Red Shroud and Black Strap, Scotchgard™ Anti-Fog/Anti-Scratch Coating (K&N), Clear Lens | Clear | Red/black |
| GG6002SGAF-BLK | 3M™ GoggleGear™ 6000 Series Safety Goggles, Black Shroud and Strap, Scotchgard™ Anti-Fog/Anti-Scratch Coating (K&N), Grey Lens | Grey | Black |
| GG6001NSGAF-BLU | 3M™ GoggleGear™ 6000 Series Safety Goggles, Blue Shroud and Neoprene Strap, Scotchgard™ Anti-Fog/Anti-Scratch Coating (K&N), Clear Lens | Clear | Blue/black |
| GG6001SGAF-IR5 | 3M™ GoggleGear™ 6000 Series Safety Goggles, 3M™ Scotchgard™ Anti-Fog/Anti-Scratch Coating (K&N) Clear Lens, with Flip-Up Grey IR5 Cover Lens | Clear with flip up IR5 | Black |
| GG6050AS-CLENS | 3M™ GoggleGear™ 6000 Series Safety Goggles Anti-Scratch Replacement Flip-Up Grey IR5 Cover Lens | IR5 | N/A |

Key features

- ▶ Optical class 1 lens for prolonged use
- ▶ Single piece lens design
- ▶ 3M™ Scotchgard™ Anti-Fog/Anti-Scratch Coating providing protection against fogging and scratching, meeting K & N marking requirements of EN 166
- ▶ Protection against liquid droplets or splashes – meeting code 3 according to EN 166
- ▶ Protection against large dust particles – meeting code 4 according to EN 166
- ▶ Soft goggle shroud to help seal against the face
- ▶ Offers protection against UV radiation up to 380nm
- ▶ 3M™ Scotchgard™ Anti-Fog/Anti-Scratch Coating provides scratch resistance and durability, even after multiple washes
- ▶ Blue frame version with neoprene headband can be autoclaved for use in cleanroom environments (based on internal testing)

Materials listing

| Description | Material |
|-----------------------------------|-----------------|
| Lens | Polycarbonate |
| Frame (rigid) | Polypropylene |
| Frame (soft) | TPE |
| Headband (apart from GG6001NSGAF) | Polyester |
| Headband connector | Polymethoxylene |
| Headband (GG6001NSGAF only) | Neoprene |

Intended use

These products are intended for protection against a variety of hazards including liquid droplets (3), large dust particles (4), low energy impact (F) and medium energy impact (B) 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.

The GoggleGear 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.

Sterilisation by autoclaving – internal testing has been carried out on GG6001NSGAF-EU samples subjected to 40x automatic cleaning and disinfection and sterilisation by autoclaving at 121°C. Testing was then carried out on the following properties:

- ▶ mechanical performance (BT)
- ▶ the anti-fog properties (K)
- ▶ the anti-scratch properties (N)
- ▶ splash protection (3)
- ▶ optical performance (Class 1)

Based on the internal testing the claims remain valid.

Use limitation

- ▶ Never modify or alter this product
- ▶ Do not use this product against hazards other than those specified in this document

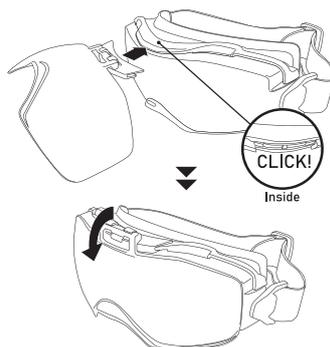
Standards and approval

These products are type examined by ECS GmbH European Certification Service, Obere Bahnstrasse 74, 73431 Aalen, Germany, Notified Body number 1883.

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.

Fitting replacement IR lens:



Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation. For more information on 3M products and services please contact 3M.

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Marking

The products have demonstrated compliance with the requirements of EN 166:2001 and associated standards and bear the following marks:

| Product reference | Lens | Frame |
|--|--------------------------------|---------------------|
| GG6001SGAF EU | 2C-1.2 3M 1 BT KN | 3M EN 166 3 4 BT CE |
| GG6001NSGAF EU | 2C-1.2 3M 1 BT KN | 3M EN 166 3 4 BT CE |
| GG6002SGAF EU | 5-3.1 3M 1 BT KN | 3M EN 166 3 4 BT CE |
| GG6001SGAF-IR5 EU | 2C-1.2 3M 1 BT KN 5 3M 1 BT | 3M EN 166 3 4 BT CE |
| GG6050AS-CLENS (replacement IR5 lens) | 5 3M 1 BT | N/A |

Explanation of marking

| Marking | Description |
|--|---|
| 2C-1.2 (EN 170:2002) | UV protection with good colour recognition. This product conforms to the requirements of the standard, providing UV protection for the complete specified range (210nm – 365nm) |
| 5-1.7 & 5-3.1 (EN 172:1994 (as amended)) | Sun-glare protection conforming to the requirements of the standard, providing UV protection for the complete specified range (280nm – 350nm) |
| 5 (EN 169:2002) | Welding lens providing protection against UV for the specified range (210nm – 365nm) and IR protection for the specified range (780nm to 1400nm) |
| 1 | Optical class |
| F | Impact protection against high speed particle at low energy (45m/s) |
| B | Impact protection against high speed particle at medium energy (120 m/s) |
| T | Tested for impact protection at extreme temperature conditions -5°C and +55°C |
| 3 | Protection against droplets or splashes of liquids |
| 4 | Protection against large dust particles |
| K | Resistance to surface damage by fine particles |
| N | Resistance to fogging |

Removing IR lens:

