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3M™ Virtua™ Series Safety Glasses

Technical datasheet



Product description

The 3M™ Virtua™ series safety spectacle is comprised of a rimless lens and fixed-length temple arm. An integrated side-shield offers maximum protection. Two product sizes are available: Virtua™ and Virtua™ Slim. The range includes clear, grey, amber and blue mirror lens options. There is also a choice of lens coatings – either anti-scratch or both anti-scratch and anti-fog.

Key features

- Design provides excellent coverage and good field of vision
- Optical Class 1 to allow prolonged comfortable wear
- Offers excellent protection against UV radiation
- Virtua™ Slim provides a better fit for those with smaller facial features
- Lens coatings provide scratch resistance, or both scratch resistance and anti-fogging
- Total weight 25g

Product range

Product ID	Description	Lens colour	Frame colour
Virtua Clear AS 71500-00001	3M™ Virtua™ Safety Glasses Anti-scratch clear PC lens	Clear PC	Clear
Virtua Grey AS 71500-00002	3M™ Virtua™ Safety Glasses Anti-scratch grey PC lens	Grey PC	Grey
Virtua Amber AS 71500-00003	3M™ Virtua™ Safety Glasses Anti-scratch amber PC lens	Amber PC	Amber
Virtua Blue Mirror 71500-00004	3M™ Virtua™ Safety Glasses with blue mirror PC lens	Blue Mirror PC	Grey
Virtua PC Clear AS/AF 715001AF	3M™ Virtua™ Safety Glasses Anti-scratch/Anti-fog clear PC lenses	Clear PC	Clear
Virtua PC Grey AS/AF 715002AF	3M™ Virtua™ Safety Glasses Anti-scratch/Anti-fog grey PC lenses	Grey PC	Grey
Virtua PC Amber AS/AF 715003AF	3M™ Virtua™ Safety Glasses Anti-scratch/Anti-fog amber PC lenses	Amber PC	Amber
Virtua Slim AS/AF 71500-00008	3M™ Virtua™ Slim Safety Glasses Anti-scratch/Anti-fog clear PC lenses	Clear PC	Clear

Typical applications

These products can be used in a wide range of applications including:

- Construction
- Engineering
- General assembly
- Inspection work
- Light duty maintenance and repair

Intended use

These products are intended for protection against high speed particles at low energy (F) at extreme temperature conditions, -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 (clear and amber lenses), and sun glare in accordance with EN 172:1994 (grey and blue mirror).

A number of lens options are available for a variety of different applications:

- Clear – Good colour recognition and excellent UV protection
- Grey and blue mirror – Good for protection from sun glare
- Amber – Enhanced contrast in low light condition e.g. surface inspection

Use limitation

- Never modify or alter this product
- Do not use this product against hazards other than those specified in this document
- These products are not suitable for grinding or welding
- These products are NOT designed to be worn over prescription spectacles
- In accordance with EN 166:2001 safety spectacles cannot be tested and approved for use against liquid droplets. Where liquid protection is specified a suitable product should be considered, for example safety goggles

Standards and approval

These products are type examined by Certottica SCRL, (Notified body number 0530).

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**

Materials listing

Description	Material
Lens	Polycarbonate
Temples	Polycarbonate
Screws	Zinc plated steel

Marking

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

Product ref	Lens marking	Frame marking
Virtua Clear	2C-1.2 3M 1 FT	3M EN 166 FT
Virtua Grey	5-2.5 3M 1 FT	3M EN 166 FT
Virtua Amber	2C-1.2 3M 1 FT	3M EN 166 FT
Virtua Blue Mirror	5-2.5 3M 1 FT	3M EN 166 FT
Virtua Slim	2C-1.2 3M 1 FT	3M EN 166 FT H

Explanation of marking

Marking	Description
2C-1.2 (EN 170:2002)	UV protection. This product conforms to the requirements of the standard, providing UV protection for the complete specified range (210nm – 365nm). Products marked C provide good colour recognition.
5-2.5 (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).
1	Optical class
F	Impact protection against high speed particle at low energy (45m/s)
T	Tested for impact protection at extreme temperature conditions -5°C and +55°C
H	Frame designed to fit a small head

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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