

3M™ Safety Over Spectacles 2800 Series

Technical datasheet



Product description

The 2800 series of safety eyewear has been designed to be worn over prescription spectacles. Products include both pantoscopic adjustment (angle of the lens frame to the temple) and adjustable temple arm length (4 fixed positions). The temple tips also include eyelets to allow easy attachment of a lanyard. Four lens variants are available: Clear, Grey, Amber and Welding Shade 5.

Product range

Product ID	Description	Lens colour	Frame colour
2800	3M™ Over Spectacles 2800 with clear PC lens	Clear PC	Blue
2801	3M™ Over Spectacles 2801 with grey PC lens	Grey PC	Blue
2802	3M™ Over Spectacles 2802 with yellow PC lens	Yellow PC	Blue
2805	3M™ Over Spectacles 2805 with shade 5 PC lens	Welding Shade 5 PC	Blue

Typical applications

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

- ▶ General assembly
- ▶ Construction
- ▶ Light duty maintenance and repair
- ▶ Engineering
- ▶ Woodworking
- ▶ Foundry work
- ▶ Certain welding applications

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).

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

- ▶ Clear – Good colour recognition and excellent UV protection
- ▶ Grey – Good for protection from sun glare
- ▶ Amber – Enhanced contrast in low light condition e.g. surface inspection
- ▶ Welding Shade 5 – Offers protection for certain welding applications

Key features

- ▶ Optical class 1 lens for prolonged use
- ▶ Offers protection against UV radiation
- ▶ Designed to be worn over prescription eyewear
- ▶ Adjustable temple features
- ▶ Easy attachment to lanyards

Use limitation

- ▶ Never modify or alter this product
- ▶ Do not use this product against hazards other than those specified in this document
- ▶ 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 BSI Group, Notified Body number 2797.

These products are CE marked to the requirements of European Regulation (EU) 2016/425.

The applicable legislation can be determined by reviewing the Certificates and Declarations of Conformity at www.3M.com/Eye/certs

Materials listing

Description	Material
Component	2800/2801/2802/2805
Lens	Polycarbonate
Ratchet holder	Polyamide
Ratchet	Polyamide
Temple slider	Polyamide
Temple tip	Polyamide
Temple screws	Stainless steel
Weight	39g

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
2800	2C-1.2 3M 1 FT	3M EN 166 FT CE
2801	5-3.1 3M 1 FT	3M EN 166 FT CE
2802	2-1.2 3M 1 FT	3M EN 166 FT CE
2805	4-5 3M 1 FT	3M EN 166 FT CE

Note: The Welding Shade lens is marked 4-5 but has also demonstrated compliance with the requirements for welding shade 5.

Explanation of marking

Marking	Description
2-1.2 and 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
5-3.1 (EN172:1994 as amended)	Sun-glare protection conforming to the requirements of the standard, providing UV protection for the complete specified range (280nm – 350nm)
4-5 (EN 171:2002)	Infrared filter providing protection against IR protection for the specified range (780nm to 2000nm)
5 (EN 169:2002)	Welding lens providing protection against UV for the specified range (210nm to 365nm) and IR protection for the specified range (780nm to 2000nm)
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

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.

Personal Safety Division

3M United Kingdom PLC
3M Centre, Cain Road
Bracknell, Berkshire RG12 8HT
Tel.: 0870 60 800 60
www.3M.eu/Safety

3M Ireland Limited
The Iveagh Building
Carrickmines Park
Carrickmines
Dublin 18
t: 1 800 320 500

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