

## Óculos de Proteção 3M Modelo 2800



### 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.

### 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

### 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

### 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](http://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	Lensmarking	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

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