

TECHNICAL FACT SHEET

3M™ 2800 Series Safety Eyewear

Products include:

- 2800 Over Spectacles PC Clear AS**
- 2801 Over Spectacles PC Grey AS**
- 2802 Over Spectacles PC Amber AS**
- 2805 Over Spectacles PC Weldingshade AS**

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 Weldingshade

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 EN166:2001.

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
- Weldingshade – Offers protection for certain welding applications

Key Features:

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

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

Standards and Approval:

This protective eyewear has been shown to meet the basic safety requirements under Article 10 of the European Community Directive 89/686/EEC and is thus CE marked.

These products have been examined at the design stage by BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP, United Kingdom (Notified Body number 0086).

These products are tested and CE approved against EN166:2001.

Marking:

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

Lens marking

Clear lens:	2C-1.2	3M	1	FT
Grey lens:	5-3.1	3M	1	FT
Amber lens:	2-1.2	3M	1	FT
Weldingshade lens:	4-5	3M	1	FT

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

Frame marking

Frame (2800):	3M	2800	EN166	FT	CE
Frame (2801):	3M	2801	EN166	FT	CE
Frame (2802):	3M	2802	EN166	FT	CE
Frame (2805):	3M	2805	EN166	FT	CE

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



Materials Listing:

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

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 EN166:2001 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.

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