



Technical Fact Sheet

3M™ 1200E Series Safety Spectacles

71509-00000M 1200E (clear lens)

71509-00001M 1200E (grey lens)

Product Description:

The new highly stylish 3M 1200E Series Safety Spectacles are designed to appeal to the modern wearer. The wrap-around design with integral side protection improves safety and comfort. The new designed products offer excellent coverage and field of vision whilst maintaining high fashionable appearance. These products are available in clear or grey lens which helps protect against sunglare.

Intended Use:

These products are intended for protection against high speed particles at low energy (F) at extreme temperature conditions, -50°C and +55°C, (T) in accordance with EN166:2001. They also protect against UV radiation in accordance with EN170:2002, and sun glare in accordance with EN172:1994 (grey lens only).

The new 1200E range includes products are designed for use in different environment including outdoor where additional protection against sun glare is a key factor.

Key Features:

- Optical class 1 lens for high optical clarity and extended wear time.
- Highly fashionable design makes them particularly appealing to modern worker
- Lightweight (28g) for maximum comfort
- Streamline wrap-around design for excellent coverage and good field of vision
- Strong polycarbonate lens featuring anti-scratch and anti-fog coating for improved vision and extended durability.
- Adjustable soft nose bridge for improved comfort and wearability.

Applications

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

- Construction
- Pharmaceutical
- General laboratory
- Electronic component manufacture
- General assembly
- Industrial manufacturing
- DIY

Standards and Approval:

These safety spectacles have been shown to meet the basic safety requirements under Article 10 of the European Community Directive 89/686/EEC and are thus CE marked.

These products have been examined at the design stage by IN-SPEC International Ltd., 56 Leslie Hough Way, Salford, Greater Manchester, M6 6AJ, United Kingdom (Notified Body number 0194).

These products are tested and CE approved against EN166:2001

Marking:

The lens and frame are marked in accordance with the requirements of EN166:2001, and associated standards including EN170:2002 (for UV protection) and EN172:1994 (for sun glare protection).

Example of lens marking:

Filter code & scale number
for UV protection: 2C-1.2 (as per EN170:2002)
Manufacturer's identification: 3M
Optical Class: 1
Symbol for mechanical strength: FT
(high speed impact, low energy)

Example of frame marking:

Manufacturer's identification: 3M
Product reference: 1200E
European Standard: EN166
Symbol for resistance to high speed
particle test at extremes of temperature: FT
(high speed impact, low energy)

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Explanation of filter code and scale numbers:

Please see the table below for further information.

Product	Lens Option	Lens Marking	Explanation	Comments
1200E	Clear	2C-1.2	2C: UV Filter code. 1.2: Scale number.	Colour recognition not affected. For use with sources which emit predominantly ultra violet radiation at wavelengths shorter than 313nm and when glare is not an important factor. This covers the UVC (280nm – 313nm) and most of the UVB (100nm - 280nm) bands.
1200E	Grey	5-3.1	5: Filter code for sun glare. 3.1: Shade number.	Good colour differentiation under sunlight, helps reduce eye fatigue under glare condition. Improves acuity in high light levels.

Materials Listing:

Lens: Polycarbonate
Frame: High Impact Polyamide (Nylon)
End-Pieces: High Impact Polyamide (Nylon)
Temples: Polycarbonate + polyester Blend
Nose Piece: Soft ThermoPlastic Rubber with Brass adjustable core

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.
- 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.
- These products are NOT designed to be worn over prescription spectacles.

Light transmission and absorption data

3M Product	Lens Color	Lens Scale	% UV Light absorption (210nm – 313nm)	% UV Light absorption (313nm – 365nm)	% Visible light transmission
1200E	Clear	2C-1.2	99.99	99	92.8
1200E	Grey	5-3.1		99.9	12



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CH1200EDS Iss 1