

3M™ Safety Eyewear Technical Datasheet



3M™ Maxim™ Series Safety Eyewear RAS (Rugged Anti-Scratch) Coating

Product description

The Maxim series of protective eyewear has been designed for a wide variety of applications. Selected products within the range now feature an advanced 3M developed hard coating that protects the lens from scratching and therefore extends the service life of the spectacles. This coating is available on the Maxim and Maxim Ballistic product variants.

The Maxim Ballistic range features an adjustable pantoscopic angle (angle of the lens frame to the temple), providing an optimised fit for the wearer. This model also includes 'soft-touch' temple tips for increased comfort.

The Maxim range incorporates both pantoscopic adjustment and temple arms with adjustable length (4 fixed positions).

All spectacles within the Maxim Series are fitted with pliable, adjustable nose-pads and a 'soft-touch' brow guard.

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. The Maxim Ballistic range has also been tested against the STANAG 2920 ballistic standard.



Products include:

Maxim Ballistic	11865-00000M	Maxim Ballistic PC Clear RAS
Maxim	11864-00000M	Maxim-Black/Grey PC Clear RAS

Applications:

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

- Combat pursuits
- DIY
- Engineering
- General assembly
- Woodworking
- Construction

Maxim Series Key Features:

- Design provides excellent coverage and good field of vision
- Offers excellent protection against UV radiation
- Optical Class 1 to allow prolonged comfortable wear
- Multiple features available for increased comfort and adjustability
- Maxim Ballistic products meet stringent STANAG 2920 ballistic test

RAS (Rugged Anti-Scratch) Coating Key Features:

- 5 times more scratch resistance than generic 3M hard coats
- Keeps lenses clear, and safer longer
- Lowers replacement costs by extending the life of the lens
- Offers good resistance to degradation by contact with chemicals
- Fulfils the EN 166 requirements for K marking

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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 INSPEC 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. In addition, the Maxim Ballistic products meet the requirements of the STANAG 2920 ballistic test.

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 K

Frame marking

Frames: 3M Maxim EN166 FT CE

Frames: 3M Maxim Ballistic EN166 FT CE

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.
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
K	Resistance to surface damage by fine particles

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
- Not suitable for protection against dust particles
- 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



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