

Technical Datasheet



3M™ Maxim™ Series Safety Spectacles

Product Description

The 3M™ Maxim series of protective eyewear has been designed for a wide variety of applications. The range comprises of four different platforms, each platform including a variety of lens colour options that protect against different optical hazards.

The 3M™ 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 3M™ Maxim™ range incorporates both pantoscopic adjustment and temple arms with adjustable length (4 fixed positions).

The 3M™ Maxim™ Hybrid Goggle utilises the same lens as the Maxim™ spectacles in order to provide a good field of view and excellent coverage. This product variant is fitted with an adjustable headband and foam surround. In addition to the impact and UV protection offered by the lens, Maxim™ Hybrid Goggles also provide protection against liquid droplets.

Maxim™ Sport spectacles feature a 'soft-touch' material that runs along the length of each temple. This is intended to provide additional user comfort and superior grip.

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

Product Range

Maxim Ballistic

13296-00000M	3M™ Maxim™ Ballistic PC Clear DX
13297-00000M	3M™ Maxim™ Ballistic PC Bronze DX
13298-00000M	3M™ Maxim™ Ballistic PC I/O Mirror
13299-00000M	3M™ Maxim™ Ballistic PC Amber DX

Maxim

13225-00000M	3M™ Maxim™-Black/Grey PC Clear DX
13226-00000M	3M™ Maxim™-Black/Grey PC Bronze DX
13227-00000M	3M™ Maxim™-Black/Grey PC I/O Mirror
13228-00000M	3M™ Maxim™-Black/Grey PC Amber DX
13229-00000M	3M™ Maxim™-Denim/Grey PC Clear DX
13323-00000M	3M™ Maxim™-Black PC Weldingshade 3 DX
13324-00000M	3M™ Maxim™-Black PC Weldingshade 5 DX

Maxim Hybrid

13330-00000M	3M™ Maxim™ Hybrid Goggle PC Clear DX
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Maxim Sport

13240-00000M	3M™ Maxim™ Sport-Silver/Blue PC Clear DX
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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 meets the requirements of the STANAG 2920 ballistic test.



Key Features

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

Applications

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

- Combat pursuits
- Construction
- Engineering
- Foundry work
- General assembly
- Light duty maintenance and repair
- Physical agility training
- Welding
- Woodworking

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. The Maxim™ Hybrid Goggle provides protection against liquid droplets.

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

- Clear – Good colour recognition and excellent UV protection
- Bronze – Protection from sunglare
- Amber – Enhanced contrast in low light condition e.g. surface inspection
- Indoor/Outdoor – Ideal for use in sunny and low light environment
- Welding – Two shade options available to suit individual needs

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.
- This product is not designed to be worn over prescription spectacles

Marking

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

Clear lens	2C-1.2 3M 1 FT
Clear lens (Maxim Hybrid)	3M 1 FT
Amber Lens	2C-1.2 3M 1 FT
Bronze lens	5-3.1 3M 1 FT
Indoor/Outdoor lens	5-1.7 3M 1 FT
Welding shade 3 lens	3 3M 1 FT
Welding shade 5 lens	5 3M 1 FT
Frames	3M Maxim EN166 FT CE
Frames	3M Maxim Ballistic EN166 FT CE
Frames	3M Maxim Sport EN166 FT CE
Frames	3M Maxim Hybrid EN166 FT CE

Explanation of Marking

Marking	Description
2C-1.2 (EN 170:2002)	UV protection with good colour recognition. This product conforms to the requirements of the standard, providing UV protection for the complete specified range (210nm – 365nm).
5-1.7 and 5-3.1 (EN 172:1994 (as amended))	Sun-glare protection conforming to the requirements of the standard, providing UV protection for the complete specified range (280nm – 350nm).
3 and 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).
3	Field of use: Liquid Product protects against liquid droplets
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

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



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