



3M™ Eagle Series Safety Spectacles

Product Description

The 3M™ Eagle series of protective eyewear includes an extensive range of lens and frame options:

- Lenses are available as clear polycarbonate, clear CR39 or varying welding shades of polycarbonate. CR39 offers good resistance to chemical contact, while polycarbonate offers excellent impact protection.
- The range includes a selection of 'near-vision' polycarbonate lenses to aid reading or precision work. These lenses are available in 3 powers of magnification: +1.50, +2.00 and +2.50 dioptries.
- All products feature an integral protective side-shield and pliable 'soft-touch' temple tips.
- Wearers can alter the fit of their eyewear using either the adjustable pantoscopic angle (angle of the lens frame to the temple) or the adjustable length of the temple arms (4 different positions)

Intended Use

Clear polycarbonate products within the Eagle series are intended for protection against high speed particles at low energy (F) at extreme temperature conditions, -5°C and +55°C, (T). Welding shade polycarbonate lenses provide protection against high speed particles at low energy (F) at room temperature conditions. CR39 lenses have demonstrated compliance with the requirements for increased robustness (S). All products were tested in accordance with EN166:2001

Standards and Approval

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.

Product Range

CR39 Clear

01-3021-10M	3M™ Eagle Black CR39 Clear AS
01-3022-10M	3M™ Eagle Blue CR39 Clear AS

Polycarbonate Clear

04-3021-20M	3M™ Eagle Black PC Clear AS
04-3021-40M	3M™ Eagle Black PC Clear AS/AF
04-3022-20M	3M™ Eagle Blue PC Clear AS
04-3022-40M	3M™ Eagle Blue PC Clear AS/AF

Readers Clear

04-3150-20M	3M™ Eagle Black PC Near-Vision +1.50 AS
04-3200-20M	3M™ Eagle Black PC Near-Vision +2.00 AS
04-3250-20M	3M™ Eagle Black PC Near-Vision +2.50 AS

Welding shades

27-3024-01M	3M™ Eagle Black PC Weldingshade 1.7 AS
27-3024-03M	3M™ Eagle Black PC Weldingshade 3 AS
27-3024-05M	3M™ Eagle Black PC Weldingshade 5 AS
27-3024-07M	3M™ Eagle Black PC Weldingshade 7 AS

Key Features

- Side-shield provides additional protection
- Optical Class 1 to allow prolonged comfortable wear
- Temples feature adjustable length and pantoscopic angle
- Lens coatings provide excellent scratch resistance
- Anti-fog coatings available for some products in the range
- Reader lenses available (+1.50, +2.00 and +2.50 diopres)
- Welding shades available

Marking

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

Clear PC lens	2C-1.2 3M 1 FT
Clear CR39 Lens	3M 1 S
Welding shade 1.7 lens	1.7 3M 1 F
Welding shade 3 lens	3 3M 1 F
Welding shade 5 lens	5 3M 1 F
Welding shade 7 lens	7 3M 1 F
+1.50 Clear lens	2C-1.2 3M 1 FT, +1.50
+2.00 Clear lens	2C-1.2 3M 1 FT, +2.00
+2.50 Clear lens	2C-1.2 3M 1 FT, +2.50
Frames - Welding shades	3M Eagle EN166 F CE
Frames - Non-Welding shades	3M Eagle EN166 FT CE

Use Limitation

- Never modify or alter this product
- Do not use this product against hazards other than those specified in this document.
- Not suitable for protection against large 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
- These products are not suitable for grinding

Applications

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

- Construction
- Engineering
- General assembly
- Industrial manufacturing
- Light duty maintenance and repair
- Welding

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).
1.7, 3, 5 and 7 (EN 169:1992)	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
S	Increased robustness. 43g steel ball drop test.
+1.50 +2.00 +2.50	Power of magnification (diopres)

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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