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3M™ Safety Glasses 2840 Series

Technical datasheet

Product description

The 3M™ Safety Glasses 2840 series features an adjustable pantoscopic angle (angle of the lens frame to the temple) and temple arms with adjustable length (3 fixed positions). Models also include an integrated brow-guard for increased protection. The range includes a number of lens options.

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
- Simple, stylish design
- Lens coatings provide scratch resistance and anti-fogging

Product range

Product ID	Description	Lens colour	Frame colour
2840	3M™ 2840 Safety Glasses with clear PC lens	Clear PC	Clear
2841	3M™ 2841 Safety Glasses with Grey PC lens	Grey PC	Clear
2842	3M™ 2842 Safety Glasses with amber PC lens	Amber PC	Clear
2844	3M™ 2844 Safety Glasses with Indoor/Outdoor mirror lens	Indoor/Outdoor Mirror PC	Clear
2845	3M™ 2845 Safety Glasses with IR Shade 5 PC lens	IR Shade 5	Clear
2846	3M™ 2846 Safety Glasses with red/orange lens	Red/Orange	Clear

Typical applications

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

- Construction
- Engineering
- Fork-lift truck drivers
- General assembly
- Inspection work
- Light duty maintenance and repair
- Welding

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 EN 166:2001 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

Standards and approval

These products are type examined by BSI Group, Notified Body number 2797.

These products are CE marked to the requirements of European Regulation (EU) 2016/425.

The applicable legislation can be determined by reviewing the Certificates and Declarations of Conformity at **www.3M.com/Eye/certs**

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.

These products also help protect against UV radiation in accordance with EN 170:2002 (clear and amber lenses), and sun glare in accordance with EN 172:1994 (grey).

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
- Indoor/Outdoor Mirror - For workers who move in and out of strong sunlight
- Welding Shade 5 – Offers protection for certain welding applications
- Red/Orange - Offers excellent protection against ultraviolet (UV) radiation and the blue portion of light between 450nm and 530nm

Materials listing

Description	Material
Lens/temple arms	Polycarbonate
Temple tips	TPE
Ratchet	Nylon
Screws	Stainless steel

Marking

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

Product ref	Lens marking	Frame marking
2840	2C-1.2 3M 1 FT	3M EN 166 FT CE
2841	5-2.5 3M 1 FT	3M EN 166 FT CE
2842	2-1.2 3M 1 FT	3M EN 166 FT CE
2844	5-1.7 3M 1 FT	3M EN 166 FT CE
2845	5 3M 1 F	3M EN 166 F CE
2846	2-1.7 3M 1 FT	3M EN 166 FT CE

Explanation of marking

Marking	Description
2-1.2, 2-1.7 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
5-1.7 5-2.5 (EN 172:1994 as amended)	Sun-glare protection conforming to the requirements of the standard, providing UV protection for the complete specifiedrange (280nm – 350nm)
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

IMPORTANT NOTICE

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user.

Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

For more information on 3M products and services please contact 3M.

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