Technical
Datasheet

3M™ Tora™ CCS Safety Spectacles

Product Description

The 3M™ Tora™ CCS Safety Spectacles feature specially designed temple tips which enable certain 3M™ E-A-R™ corded ear plugs to be attached to the safety spectacles ready for use when required.
The wrap-around low profile streamline design of the safety spectacles provides improved safety, excellent field of vision and good coverage.
These safety spectacles are available with a clear lens for protection against UV radiation.

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 EN166:2001 and UV radiation in accordance with EN170:2002.

Key Features

- Optical class 1 lens for high optical clarity and extended wear time.
- Specially designed temple tips to allow certain 3M™ E-A-R™ corded ear plugs to be attached to the safety spectacles for additional noise protection.
- Very lightweight (25g) for maximum comfort
- Streamline wrap-around design for excellent coverage and good field of vision
- Strong polycarbonate lenses featuring anti-scratch and anti-fog coating for improved vision and extended durability.

Applications

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

- Industrial manufacturing
- Construction
- Engineering
- General assembly
- Woodworking
- DIY

Standards and Approval

These safety spectacles and ear plugs 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 INSPEC International Ltd, 56 Leslie Hough Way, Salford, Greater Manchester, M6 6AJ, United Kingdom
(Notified Body number 0194).
These safety spectacles are tested and CE approved against EN166.

Marking

The lens and frame are marked in accordance with the requirements of EN166:2001 and EN170:2002
(for UV 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: Tora CCS
European Standard: EN166
Symbol for resistance to high speed particle test at extremes of temperature: FT
(High Speed Impact, low energy)

Explanation of filter code and scale numbers

Product	Lens Option	Lens Marking	Explanation	Comments
Tora CCS	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.

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Materials

Component	Material
Lenses	High Impact Polycarbonate
Frame	Polycarbonate
Temples	Polycarbonate
Integrated Nose Bridge	Polycarbonate

Product Range

Product Code	Frame	Lens Type	Coating
71511-00000M	Blue	PC Clear	AS/AF

PC = Polycarbonate AS = Anti-scratch AF = Anti-fog

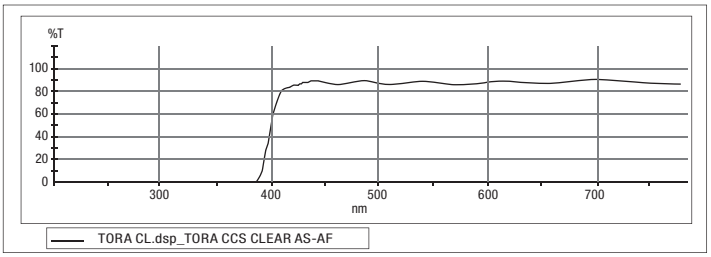
3M™ Tora™ CCS
Safety Spectacles

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.

Transmission Curves

Luminous Transmittance (Clear Lens)



Light transmission and absorption data

Product Code	Lens Colour	Lens Scale	% UV Light absorption (210nm – 313nm)	% UV Light absorption (313nm – 365nm)	% Visible light transmission (380nm – 780nm)
71511-00000M	Clear	2C-1.2	99.99	99	90

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.

3M Health & Safety Helpline

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