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Technical Data Sheet

3M™ Solus™ 1000 Series Protective Eyewear

Product Description:

3M™ Solus™ 1000 is an adaptable eyewear solution with a range of enhanced comfort features. The spectacle is available with a Scotchgard™ Anti-Fog Coating which resists fogging longer than traditional anti-fog coatings.

Intended Use:

These products are intended for protection against high speed particles at low energy (F) at extremes of temperature -5°C and +55°C (T) in accordance with EN166:2001. In addition, options are available that protect against UV radiation in accordance with EN170:2002 or Sunglare in accordance with EN172:2001

Key Features:

- Optical class 1 lens suitable for prolonged use
- 3M™ Scotchgard™ Anti-Fog Coating provides superior anti-fog and anti-scratch properties, complying with K & N marking requirements of EN166.
- 3M™ Scotchgard™ Anti-Fog Coating provides scratch resistance and durability.
- Coating retains its effectiveness even after multiple washings.
- Can be disinfected with diluted bleach soaking or alcohol wipes without losing its anti-fog performance.
- Offers excellent protection against UV radiation.
- Designed with an optional foam-lined gasket to help limit exposure to nuisance dust. The gasket features small vents to help reduce fogging.
- Designed with removable temple arms to allow attachment of optional elastic headband.

Applications:

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

- Manufacturing
- Metal working
- Mining/Oil & Gas
- Construction/outdoors
- Food industry.

Standards and Approval:

The 3M™ Solus™ 1000 Series 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 ECS GmbH - European Certification Service, Huettfeldstrasse 50, 73430 Aalen Germany (Notified body number 1883).

These products are tested and CE approved against EN166:2001.

Marking:

The 3M™ Solus 1000 product has demonstrated compliance with the requirements of EN 166:2001 and associated standards and bear the following marks:

Lens marking

Clear Polycarbonate	2C-1.2 3M 1 FT K N CE
Amber Polycarbonate	2C-1.2 3M 1 FT K N CE
Grey Polycarbonate	5C-3.1 3M 1 FT K N CE

Frame marking

3M 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).
5C-3.1 (EN172:2001)	Sunglare protection with good colour recognition.
1	Optical class
F	Impact protection against high speed particles 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
N	Resistance to fogging

Materials listing:

Component	Material
Lens	Polycarbonate
Frame (rigid)	Polycarbonate
Frame (soft)	TPE
Gasket	Nylon / EVA Foam
Nosepiece	TPR
Headband	Nylon
Headband connector	Polycarbonate

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

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