



EU TYPE-EXAMINATION CERTIFICATE

no: AC 19130 Rev.2

Pursuant to Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016,

CERTOTTICA Srl

Italian Institute for the certification of optical products
Notified body under PPE Regulation with identification number: 0530

considering application for EU type-examination no. **19572** submitted on **16/12/2019**

CERTIFIES THAT

the following personal protective equipment type

Personal eye protector - Spectacle
3M™ Solus 2000

submitted by

3M United Kingdom PLC
3M Centre, Cain Road, Bracknell Berkshire RG12 8HT - UNITED KINGDOM

meet the essential health and safety requirements which apply to it.

Description of the personal protective equipment model, references to the standards, test results and description of the CE marking placed on the equipment are described on pages 2, 3 and 4 of this document.

First issued on: **07/06/2019**

Renewal or revision date: **06/06/2024**

Expiry date: **05/06/2029**

Longarone, **06/06/2024**

Certification Services Manager
(Michele Perenzin)



This document has no. 4 numbered pages.

1. Description of the Personal Protective Equipment

Identification of the PPE: 3M™ Solus 2000
Trade name: 3M™
Kind of equipment: Personal eye protector - Spectacle
Ocular Material: Polycarbonate
Frame Material: Polycarbonate and TPR
In compliance with Standard(s): EN 166:2001 and /
PPE Category: II
Field(s) of use: Protection against high-speed particles at extremes of temperature - Low energy impact;
Protection against optical radiation-Welding filters - EN169 (Grey oculars); Protection against optical radiation-Ultraviolet filters - EN170 (Clear and Amber oculars); Protection against optical radiation-Sunglare filters for industrial use - EN172 (Grey, Brown, I/O Grey and Red Mirror oculars); Resistance to surface damage by fine particles; Resistance to fogging of oculars.

Note: The present EU type-examination certificate is the second revision of the previous one issued by Certottica on 07/06/2019 with number AC 19130. The first revision, issued on 17/01/2020, added six variants. This second revision renews the EU type-examination certificate.

Eye-protector model 3M™ Solus 2000 has fourteen ocular variants: Clear (codes **S2001SGAF-RED** & **S2001SGAF-BGR** - UV filters with resistance to surface damage and fogging), Grey (codes **S2002SGAF-RED** & **S2002SGAF-BGR** - sunglare filters with resistance to surface damage and fogging), Amber (code **S2003SGAF-BGR** - UV filters with resistance to surface damage and fogging), Brown (code **S2005SGAF-BGR** - sunglare filters with resistance to surface damage and fogging), I/O Grey (code **S2007SGAF-BGR** - sunglare filters with resistance to surface damage and fogging), Red Mirror (code **S2024AS-RED** - sunglare filters), Clear (code **S2001ASP-BLU** - UV filters with resistance to surface damage), Clear (code **S2001AF-BLU** - UV filters), Grey (code **S2017ASP-BLK** - welding filters with resistance to surface damage), Grey (code **S2030ASP-BLK** - welding filters with resistance to surface damage), Grey (code **S2050ASP-BLK** - welding filters with resistance to surface damage), Clear (code **S2015AF-BLU** - UV filters with 1.5 dioptre bifocal), Clear (code **S2020AF-BLU** - UV filters with 2.0 dioptre bifocal) and Clear (code **S2025AF-BLU** - UV filters with 2.5 dioptre bifocal). This eye-protector has an optional foam gasket in Polypropylene and EVA.

Manufacturer's name: 3M United Kingdom PLC
Manufacturer's address: 3M Centre, Cain Road, Bracknell Berkshire RG12 8HT - UNITED KINGDOM
Authorised representative's name: /
Authorised representative's address: /
Certificate's holder: 3M United Kingdom PLC
Holder's address: 3M Centre, Cain Road, Bracknell Berkshire RG12 8HT - UNITED KINGDOM



2. Levels of protection offered by the PPE

Applicable harmonised standards/technical specifications:

EN 165:2005 - Personal eye-protection - Vocabulary

EN 166:2001 - Personal eye-protection - Specifications

EN 169:2002 - Personal eye-protection - Filters for welding and related techniques - Transmittance requirements and recommended utilisation

EN 170:2002 - Personal eye-protection - Ultraviolet filters - Transmittance requirements and recommended use

EN 172:1994/A1:2000/A2:2001 - Personal eye-protection - Sunglare filters for industrial use

Personal protection equipment model: 3M™ Solus 2000

complies with the basic requirements and with the following additional requirements provided for by the harmonised standard(s)/technical specification(s) for the particular use of this PPE in the foreseeable conditions of use :

EN 166:2001 and /

Protection against high-speed particles at extremes of temperature - Low energy impact;

Resistance to surface damage by fine particles;

Resistance to fogging of oculars.

/

/

Moreover, the personal protection equipment complies with the specific requirements provided for by the connected harmonised standard(s)/technical specification(s) for the particular fields of use:

EN 170 and EN 172

The eye-protector model 3M™ Solus 2000 with the Grey ocular variant is designed for protection against optical radiation - welding filters; The eye-protector model 3M™ Solus 2000 with the Clear and Amber ocular variants is designed for protection against optical radiation - ultraviolet filters; The eye-protector model 3M™ Solus 2000 with the Grey, Brown, I/O Grey and Red Mirror ocular variants is designed for protection against optical radiation - sunglare filters for industrial use.

3. Test and examinations results are covered by the following test reports:

CERTOTTICA	192168 ÷ 192175	07/05/2019
CERTOTTICA	193757	27/05/2019
CERTOTTICA	196224 ÷ 196227	11/10/2019
CERTOTTICA	197529 ÷ 197531	15/11/2019
CERTOTTICA	197747	29/11/2019
/	/	
/	/	
/	/	
/	/	
/	/	



4. The marking elements reproduced on the oculars are the following:

		Ocular 1	Ocular 2
Variant	Clear SGAF, Clear ASP and Amber SGAF	2C-1,2	/
Scale Number	I/O Grey SGAF Brown SGAF Grey SGAF	5-1,7 5-2,5 5-3,1	/
	Grey ASP	1,7 or 3 or 5	/
	Clear AF Red Mirror AS	/	2C-1,2 5-3,1
Manufacturer's Identification		3M	3M
Optical class		1	1
Standard of reference			
Impact level		FT	FT
Resistance to surface damage by fine particles		K	/
Resistance to fogging of oculars		N	/
/		/	/
/		/	/
/		/	/
CE Marking		CE	CE

Marking position: On the top of the right ocular, front side.

5. The Marking elements reproduced on the frame are the following:

Manufacturer's Identification	3M
Reference standard	EN 166
Protection against high-speed particles at extremes of temperature - Low energy impact	FT
/	/
/	/
/	/
/	/
CE Marking	CE

Marking position: On the right temple, inner position.

6. Statement for category III PPE:

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Terms and conditions under which the Certificate is issued

- Marking and instructions have been examined in English. Obtaining and supplying versions in languages accepted by the countries where the product is sold are under the complete responsibility of the Manufacturer or of his authorized representative.
- Any changes to the product, to the technical documentation or, in set cases, to the manual or to the quality control procedures, shall be notified in time to Certottica.
- The Manufacturer or his authorized representative shall respect the procedures and rules provided for by Certottica for the issuing of the EU type-examination.
- Copies of this EU type-examination certificate, supplied to third parties, shall be reproduced in their entirety.
- This EU type-examination certificate shall be kept by the Manufacturer to be shown, on request, to the market surveillance authorities.
- This EU type-examination certificate remains property of Certottica, which can ask it to be returned if any of the above mentioned conditions is not respected.