



Module B EU Type-Examination Certificate

For the requirements of PPE Regulation 2016/425

Certificate No.: CE-PE-200506-330-01-9A

Certificate holder:	Zhejiang Outlook Optical Manufactory Co., Ltd. 12 Shengye Road, Lucheng District, Wenzhou City, Zhejiang, China
Product:	Personal eye-protection Detailed product description listed in the Annex
Model(s):	A2124A, A2125A, A2126A
Standard(s):	EN 166:2001 Personal eye-protection - Specifications
Issue date:	2020-05-29
Revision date:	2020-05-29
Expiry date:	2025-05-28

The product(s) on this certificate and the Technical File have been assessed and found to be in conformance with the applicable Essential Health and Safety Requirements in Annex II of the PPE regulation 2016/425.

Any changes to the design, manufacturing location or manufacture of the PPE product certified here must be advised to CCQS Certification Services Limited for review.

CE marking shall not be applied until the requirements of all the PPE Regulation 2016/425 and relevant EN Harmonised standards and/or Technical specifications have been met.

If the certified product is Category III then this certificate is only valid if used in conjunction with Conformity Assessment against Module C2 or Module D.

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Approved by Ireland
Government
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Module B EU Type-Examination Certificate

Annex

For the requirements of PPE Regulation 2016/425

Certificate No.: CE-PE-200506-330-01-9A

Applicable standards and specification:

EN 166:2001 Personal eye-protection - Specifications

Model reference	Product description
A2125A	Spectacles with polycarbonate clear lens Optical Class 1, Increased Robustness S, Resistance to fogging N Test Report No.: YW20200499
A2124A	Goggles with polycarbonate clear lens Optical Class 1, Increased Robustness S Test Report No.: YW20200375
A2126A	Goggles with polycarbonate clear lens Optical Class 1, Increased Robustness S, Protection against liquid splashes and droplets 3 Test Report No.: YW20200498

Certificate Revision	Revision date	Revision details
A	2020-05-29	Initial issue



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Test Report

Number: SHAH01215403

Applicant: WENZHOU OUTLOOK OPTICAL CO., LTD
12 SHENGYE RD., LUCHENG SPECIALIZED, LIGH
INDUSTRIAL PARK WENZHOU ZHEJIANG
Attn: HELLA SUN

Date: 14 May, 2020

Sample Description:

One(1) style of submitted sample said to be :

Item Name : A2124A.
Supplier : WENZHOU OUTLOOK OPTICAL CO., LTD.
Factory : ZHEJIANG OUTLOOK OPTICAL MANUFACTORY CO., LTD.

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	EN 166:2001 – Personal eye-protection — Specifications Excluding: - Clause 6.2 – Materials - Clause 9 – Marking - Clause 10 – Information supplied by the manufacturer	Pass

To be continued

Authorized By:
Intertek Testing Services Ltd, Shanghai, Wenzhou Branch



Peter Chen
General Manager



Test Report

Number: SHAH01215403

Tests Conducted

Requirements for Eye-protectors

Test standard: EN 166:2001 – Personal eye-protection — Specifications

Number of samples tested: Eighteen (18) pairs of spectacles.

Clause	Requirement	Result
6	Design and manufacturing requirements	
6.1	General construction	P
6.2	Materials	#1
6.3	Headbands	NA
7	Basic, particular and optional requirements	
7.1	Basic requirements	
7.1.1	Field of vision	P
7.1.2.1	Spherical, astigmatic and prismatic refractive powers	
7.1.2.1.1	Unmounted oculars covering one eye	NA
7.1.2.1.2	Mounted oculars and unmounted oculars covering both eyes	P
7.1.2.1.3	Cover plates	NA
7.1.2.2	Transmittance	
7.1.2.2.1	Oculars without filtering action	P
7.1.2.2.2	Oculars with filtering action (filters) and housings for oculars with filtering action	NA
7.1.2.2.3	Variations in transmittance	NA
7.1.2.3	Diffusion of light	P
7.1.3	Quality of material and surface	P
7.1.4	Robustness	
7.1.4.1	Minimum robustness	NA
7.1.4.2	Increased robustness	
7.1.4.2.1	Unmounted oculars	NA
7.1.4.2.2	Complete eye-protectors and frames	P
7.1.5	Resistance to ageing	
7.1.5.1	Stability at an elevated temperature	P
7.1.5.2	Resistance to ultraviolet radiation (oculars only)	P
7.1.6	Resistance to corrosion	NA
7.1.7	Resistance to ignition	P
7.2	Particular requirements	
7.2.1	Protection against optical radiation	NA
7.2.2	Protection against high-speed particles	NA
7.2.3	Protection against molten metals and hot solids	NA
7.2.4	Protection against droplets and splashes of liquids	NA



Test Report

Number: SHAH01215403

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Clause	Requirement	Result
7.2.5	Protection against large dust particles	NA
7.2.6	Protection against gases and fine dust particles	NA
7.2.7	Protection against short circuit electric arc	NA
7.2.8	Lateral Protection	NA
7.3	Optional requirements	
7.3.1	Resistance to surface damage by fine particles	NA
7.3.2	Resistance to fogging of oculars	NA
7.3.3	Oculars with enhanced reflectance in the infrared	NA
7.3.4	Protection against high speed particles at extremes of temperature	NA
9	Marking	#2
10	Information supplied by the manufacturer	#3

Abbreviation: P = Pass; NA = Not Applicable;

Test data:

7.1.2.1 Spherical, astigmatic and prismatic refractive powers

Optical power			Left ocular	Right ocular	Limit		
					Optical class		
					1	2	3
Spherical power (m ⁻¹)			+0.01	+0.01	±0.06	±0.12	+0.12 -0.25
Astigmatic power (m ⁻¹)			0.02	0.01	≤ 0.06	≤ 0.12	≤ 0.25
Prismatic power Difference Cm/m	Horizontal	Base out	----		≤ 0.75	≤ 1.00	≤ 1.00
		Base in	0.05		≤ 0.25	≤ 0.25	≤ 0.25
	Vertical		0.01		≤ 0.25	≤ 0.25	≤ 0.25

7.1.2.2 Transmittance

Range	Transmittance (%)		Requirement
	Left ocular	Right ocular	
380 - 780nm (Tv)	90.19	90.35	≥ 74.4%

To be continued



Test Report

Number: SHAH01215403

Tests Conducted

7.1.2.3 Diffusion of light

The reduced luminous Coefficient (cd.m ⁻² /lx)	Left ocular	0.13	Requirement ≤ 0.50 cd.m ⁻² /lx
	Right ocular	0.02	

7.1.5.2 Resistance to ultraviolet radiation

Relative change in luminous transmittance after irradiation (%)	Left ocular	+1.0	Requirement ±5 % (17.8% ≤ T _v ≤ 100%)
	Right ocular	+0.7	

The reduced luminous coefficient (cd.m ⁻² /lx)	Left ocular	0.23	Requirement ≤ 0.50 cd.m ⁻² /lx
	Right ocular	0.28	

Abbreviation:

≥ = More than or equal to

≤ = Less than or equal to

Remarks:

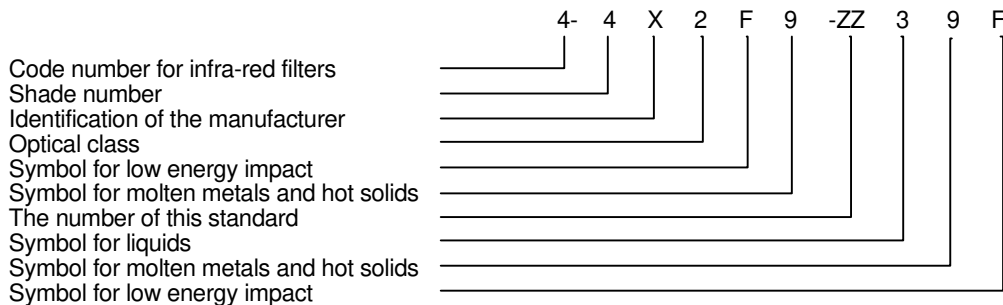
#1 - No parts of the eye-protector which are in contact with the wearer shall be made of materials which are known to cause any skin irritation.

#2 - Eye-protectors in which the frame and ocular form a single unit shall be marked on the frame.

The marking shall comprise the full ocular marking, a hyphen, the number of this standard and then any appropriate symbols for field of use and level of impact.

The following example illustrate the principle defined above:

Single unit eye-protector with infrared filter effect resistant to low energy impact, resistant to adherence of molten metal and penetration of hot solids, with the frame offering protection against liquids, molten metals and hot solids and being resistant to low energy impact.



To be continued

Test Report

Number: SHAH01215403

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#3 - The manufacturer shall provide with each eye-protector, replacement ocular and replacement frame at least the following information:

- (a) name and address of the manufacturer;
- (b) the number of this standard;
- (c) the eye-protector model identification;
- (d) instructions for storage, use and maintenance;
- (e) specific instructions for cleaning and disinfection;
- (f) details of the field of use, protection capabilities and performance characteristics;
- (g) details of suitable accessories and spare parts. Instructions for fitting shall be included with the original eye-protector and/or with the spare part or accessory;
- (h) the obsolescence deadline or period of obsolescence, if applicable, for the complete eye-protector and/or component parts;
- (i) the type of packaging suitable for transport, if applicable;
- (j) the significance of the marking on the frame and the ocular;
- (k) a warning that optical class 3 oculars are not intended for long term use, if applicable;
- (l) a warning concerning the compatibility of marking (see notes (4), (5) and (6) to Table 12);
- (m) a warning that materials which may come into contact with the wearer's skin could cause allergic reactions to susceptible individuals;
- (n) a warning that scratched or damaged oculars should be replaced;
- (o) a warning that eye-protectors against high speed particles worn over standard ophthalmic spectacles may transmit impacts, thus creating a hazard to the wearer;
- (p) a note to instruct that if protection against high speed particles at extremes of temperature is required then the selected eye-protector should be marked with the letter T immediately after the impact letter, i.e. FT, BT or AT. If the impact letter is not followed by the letter T then the eye protector shall only be used against high speed particles at room temperature.

Date sample received : May 8, 2020
Testing period : May 8, 2020 To May 13, 2020

To be continued

Test Report

Number: SHAH01215403

Tests Conducted



End of report

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No. YW20200375



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TEST REPORT

Product: Spectacles

Model: A2124A

Applicant: Wenzhou Outlook Optical Co., Ltd

Date of issue: 2020-04-28

GIMT

GUANGZHOU INSTITUTE OF MEASUREMENT AND TESTING TECHNOLOGY



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- 3) The report is invalid if altered.
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- 5) Unless otherwise indicated, the test results contained in the report apply only to the samples tested.
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- 7) The applicant should be responsible for the authenticity of the sample informations.



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TEST REPORTS

Information

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Report No.	YW20200375
Commission No.	4011317
Testing Laboratory	Guangzhou Institute of Measurement and Testing Technology
Address	No.19, Jiantashan Road, Kexuecheng, Guangzhou, Guangdong, China
Applicant	Wenzhou Outlook Optical Co., Ltd
Address	No.12, Shengye Rd, Lucheng district, Wenzhou Zhejiang (The East Side of 2nd Floor of Zhejiang Outlook Optical Manufactory Co., Ltd)
Information of samples	
Product	Spectacles
Brand name	/
Model	A2124A
Manufacturer	Zhejiang Outlook Optial Manufactory Co., Ltd
Address	12 Shengye Road, Lucheng District, Wenzhou City, Zhejiang
Quantity submitted	30 pcs.
Environmental condition	
Temperature	19.2 °C
Relative humidity	53 %
Test requested	EN 166:2001
Test method	EN 167:2001, EN 168:2001
Results	Please refer to the following pages.
Conclusion	Based on the test results given in this report, the specimens meet the requirements of EN 166:2001.
Date	
Date of receipt	2020-04-22
Period of testing	2020-04-22 to 2020-04-27
Date of issue	2020-04-28

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 Approved by:  李锐

 Reviewed by:  张洁


 Tested by:  吴小巧


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Information

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Description of samples	Photo of samples
<p> <u>Type:</u> Spectacles <u>Optical class:</u> 1 <u>Symbol:</u> S <u>Quantity submitted:</u> 30 pcs. </p>	

Comment:

EN 166:2001
Personal eye-protection Specifications

<u>Clause</u>	<u>Requirement</u>	<u>Result</u>
6	<u>Design and manufacturing requirements</u>	
6.1	General construction	Pass
6.3	Headbands	N/A
7.1	<u>Basic requirements</u>	
7.1.1	Field of vision	Pass
7.1.2.1	Spherical, astigmatic and prismatic refractive powers	Pass
7.1.2.2	Transmittance	Pass
7.1.2.3	Diffusion of light	Pass
7.1.3	Quality of material and surface	Pass
7.1.4	Robustness	Pass
7.1.5	Resistance to ageing	Pass
7.1.6	Resistance to corrosion	N/A
7.1.7	Resistance to ignition	Pass

#1: N/A means the test item does not apply to the test objects.

—see next page—

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TEST RESULTS

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Personal eye-protection Specifications

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6 Design and manufacturing requirements

6.1 General construction

Requirements:

Eye-protectors shall be free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use.

Result: All the samples: Pass.

6.3 Headbands

Requirements:

Headbands, when used as the principal means of retention, shall be at least 10 mm wide over any portion which may come into contact with the wearer's head. Headbands shall be adjustable or self-adjusting.

Table 1. Test results of the width of Headbands

Performance parameter	Sample	Measurements	Result (Pass/Fail)
Width (mm)	1	/	/
	2	/	/
	3	/	/

Result: Sample 1-3: N/A.

7.1 Basic Requirements

7.1.1 Field of vision

Requirements:

Eye-protectors shall exhibit a minimum field of vision defined by the two ellipses in Figure 1 when placed and centered at a distance of 25 mm from the surface of the appropriate head-form.

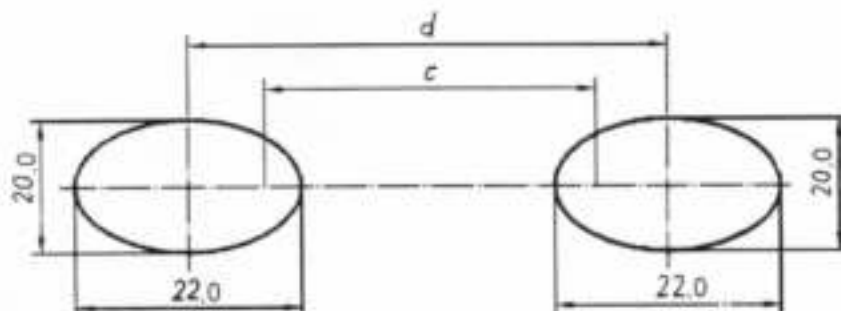



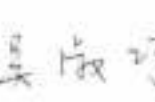
Figure 1 - Definition of the field of vision

Result: Sample 1-3: Pass.

— See next page —

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Reviewed by:  张洁

Tested by:  吴淑巧

TEST RESULTS

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7.1.2 Optical requirements

7.1.2.1 Spherical, astigmatic and prismatic refractive powers

The requirements and test results are showed as Table 2.

Table 2. Requirements and test results of refractive powers

Performance parameter	Sample	Measurements		Requirements	Result (Pass/Fail)
		R	L		
Spherical refractive power (m ⁻¹)	1	0.01	0.01	±0.06	Pass
	2	0.02	0.02		Pass
	3	0.01	0.01		Pass
Astigmatic refractive power (m ⁻¹)	1	0.03	0.01	<0.06	Pass
	2	0.01	0.01		Pass
	3	0.01	0.01		Pass
Difference in prismatic refractive power (cm/m)	1	Horizontal: Base in ,0.10 Vertical: 0.05		Horizontal: Base out: <0.75 Base in: <0.25	Pass
	2	Horizontal: Base in ,0.10 Vertical: 0.05			Pass
	3	Horizontal: Base in ,0.10 Vertical: 0.05		Vertical: <0.25	Pass

Result: Sample 1~3: Pass.

7.1.2.2 Transmittance

7.1.2.2.1 Oculars without filtering ation


The requirements and test results are showed as Table 3.


Table 3. Requirements and test results of luminous transmittance

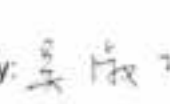
Performance parameter	Sample	Measurements		Requirements	Result (Pass/Fail)
		R	L		
Luminous transmittance (%)	4	91.6	91.7	>74.4	Pass
	5	91.6	91.8		Pass
	6	91.7	91.6		Pass

Result: Sample 4~6: Pass.

— See next page —

 Approved by:  李彦彦

 Reviewed by:  张靖

 Tested by:  吴淑巧

TEST RESULTS

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7.1.2.3 Diffusion of light

The requirements and test results are showed as Table 4.

Table 4. Requirements and test results of diffusion of light

Performance parameter	Sample	Measurements		Requirements	Result (Pass/Fail)
		R	L		
Diffusion of light ($cd/(m^2 \cdot lx)$)	4	0.18	0.18	≤0.50	Pass
	5	0.20	0.16		Pass
	6	0.18	0.16		Pass

Result: Sample 4~6: Pass.

7.1.3 Quality of material and surface

Requirement:

Except for a marginal area 5 mm wide, oculars shall be free from any significant defects likely to impair vision in use, such as bubbles, scratches, inclusions, dull spots, pitting, mould marks, scuring, grains, pocking, scaling and undulation.

Result: Sample 1~3: Pass.

7.1.4 Robustness

7.1.4.1 Minimum robustness

Requirement:

When tested in accordance with clause 4 of EN 168:2001, the following defects shall not occur:


- a) ocular fracture: an ocular shall be considered to have fractured if it has cracked through its entire thickness into two or more pieces, or if more than 5 mg of the ocular material becomes detached from the surface away from the one in contact with the ball, or if the ball passes through the ocular;
- b) ocular deformation : an ocular shall be considered to have been deformed if a mark appears on the white paper on the opposite side to the one on which the force is applied.

Result: N/A.

Notes: This requirement relates only to cover plates and oculars with filtering effect and need not be assessed if these items are intended to meet the requirements for increased robustness or resistance to high speed particles, in which case the requirements of 7.1.4.2 or 7.2.2 shall be met.

—see next page—

Approved by:  李彦彦

Reviewed by:  张洁

Tested by:  吴彦巧

TEST RESULTS

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7.1.4.2 Increased robustness (Complete eye-protectors and frames)

Requirement:

When tested in accordance with clause 3.2 of EN 168:2001, the following defects shall not occur:

- a) ocular fracture : an ocular shall be considered to have fractured if it cracks through its entire thickness into two or more pieces, or if more than 5 mg of the ocular material becomes detached from the surface away from the one struck by the ball, or if the ball passes through the ocular;
- b) ocular deformation : an ocular shall be considered to have been deformed if a mark appears on the white paper on the opposite side to that struck by the ball;
- c) ocular housing or frame fracture : an ocular housing or frame shall be considered to have failed if it separates into two or more pieces, or if it is no longer capable of holding an ocular in position, or if an unbroken ocular detaches from the frame, or if the ball passes through the housing or frame;
- d) lateral protection failure : the lateral protection shall be considered to have failed if it fractures through its entire thickness into two or more separate pieces, or if one or more particles become detached from the surface remote from the impact point, or if it allows the ball to penetrate completely, or if it partially or totally detaches from the eye-protector, or if its component parts become separated.

Result: Test results of the submitted samples are showed as Table 5.

Table 5. Test results of increased robustness

Sample	Impact point	Test temperature	Defects	Result (Pass/Fail)
7~8	Left eye frontal	+55 °C	Not occurred	Pass
11~12	Right eye frontal	+55 °C	Not occurred	Pass
9~10	Left eye frontal	-5 °C	Not occurred	Pass
13~14	Right eye frontal	-5 °C	Not occurred	Pass
15	Left eye side	+55 °C	Not occurred	Pass
17	Right eye side	+55 °C	Not occurred	Pass
16	Left eye side	-5 °C	Not occurred	Pass
18	Right eye side	-5 °C	Not occurred	Pass

Result: Pass.

—See next page—

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 Reviewed by:  张洁

 Tested by:  吴巧

TEST RESULTS

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7.1.5 Resistance to ageing

7.1.5.1 Stability at an elevated temperature

Requirement:

Assembled eye-protectors shall show no apparent deformation when tested by the method specified in clause 5 of EN 168:2001.

Result: Sample 1~3: Pass.

7.1.5.2 Resistance to ultraviolet radiation (oculars only)

The requirements and test results are showed as Table 6.

Table 6. Requirements and test results of resistance to ultraviolet radiation

Performance parameter	Sample	Measurements		Requirements	Result (Pass/Fail)
		R	L		
Relative change of luminous transmittance (%)	4	0.0	0.0	±5	Pass
	5	-0.1	-0.2		Pass
	6	-0.1	0.0		Pass
Reduced luminance factor (cd/(m ² ·lx))	4	0.24	0.24	≤0.50	Pass
	5	0.29	0.32		Pass
	6	0.26	0.27		Pass

Result: Sample 4~6: Pass.

7.1.6 Resistance to corrosion

Requirement:

After having undergone the test for resistance to corrosion specified in clause 8 of EN 168:2001, all metal parts of the eye-protector shall display smooth surfaces, free from corrosion, when they are examined by a trained observer.

Result: N/A.

Notes: This requirement relates only to the eye-protector with metal parts.

—See next page—


Approved by:


 李彦彦

Reviewed by:


 张洁

Tested by:


 吴巧

TEST RESULTS

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**7.1.7 Resistance to ignition
Requirement:**

Eye-protectors shall be tested in accordance with the method specified in clause 7 of EN 168:2001 and shall be considered to be satisfactory if no part of the eye-protector ignites or continues to glow after removal of the steel rod.

Result: Sample 10~12: Pass.

—End of the report—

Approved by:  李彦彦Reviewed by:  张洁Tested by:  吴瑞巧