

# TEST REPORT

**2023EC0148**

## DATE OF RECEPTION

Date Format: dd/MM/yyyy 06/04/2023

## DATE TESTS

Starting: 12/04/2023

Ending: 28/04/2023

## APPLICANT

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## IDENTIFICATION AND DESCRIPTION OF SAMPLES

| Reference by AITEX | Reference by customer | AITEX sample description |
|--------------------|-----------------------|--------------------------|
| 2023EC0148-S01     | S-500                 | Spectacles               |

## TESTS CARRIED OUT

- DETERMINATION OF SPHERICAL, ASTIGMATIC AND PRISMATIC REFRACTIVE POWERS.
- DIFFUSION OF THE LIGHT.
- EVALUATION OF THE MATERIAL QUALITY AND SURFACE.
- VARIATION OF THE LUMINOUS TRANSMITTANCE.
- INCREASED STRENGTH.
- STABILITY AT HIGH TEMPERATURE.
- RESISTANCE TO UV RADIATION.
- RESISTANCE TO IGNITION.
- CORROSION RESISTANCE.
- RESISTANCE TO THE IMPACT TO HIGH SPEED PARTICLES.
- RESISTANCE TO FOGGING.
- ASSESSMENT TEST VISUAL FIELD.
- EVALUATION OF LATERAL PROTECTION.
- VISIBLE AND ULTRAVIOLET TRANSMITTANCE.
- TRANSMITTANCE.

Tests marked with \* are not included within the scope of the ENAC accreditation.





## DESCRIPTION OF SAMPLES

**Reference by AITEX:** 2023EC0148-S01

**Reference by customer:**

S-500

**AITEX sample description:**

Spectacles

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| AITEX Subsamples | Subsample Description               |
|------------------|-------------------------------------|
| 2023EC0148-S01.1 | Spectacles with clear lens          |
| 2023EC0148-S01.2 | Spectacles with anti-fog clear lens |
| 2023EC0148-S01.3 | Spectacles with welding filters     |



## EXECUTIVE SUMMARY

| Reference        | Test/Standard   | Result    |
|------------------|---|-----------|
| 2023EC0148-S01   | DETERMINATION OF SPHERICAL, ASTIGMATIC AND PRISMATIC REFRACTIVE POWERS<br>EN 167:2001 Pto 3 | CLASS 1   |
|                  | INCREASED ROBUSTNESS<br>EN 168:2001 Pto.3   | PASS      |
|                  | STABILITY AT HIGH TEMPERATURE<br>EN 168:2001 Pto.5  | PASS      |
|                  | RESISTANCE TO IGNITION<br>EN 168:2001 Pto.7   | PASS      |
|                  | CORROSION RESISTANCE<br>EN 168:2001 Pto.8   | PASS      |
|                  | RESISTANCE TO THE IMPACT TO HIGH SPEED PARTICLES<br>EN 168:2001 Pto.9.2.1                   | MARKING F |
|                  | ASSESSMENT OF FIELD OF VISION<br>EN 168:2001 Pto.18   | PASS      |
|                  | EVALUATION OF LATERAL PROTECTION<br>EN 168:2001 Pto.19                                      | PASS      |
| 2023EC0148-S01.1 | DIFFUSION OF THE LIGHT<br>EN 167:2001 Pto 4.2.2   | PASS      |
|                  | EVALUATION OF THE MATERIAL QUALITY AND SURFACE<br>EN 167:2001 Pto.5                         | PASS      |
|                  | VARIATION OF THE LUMINOUS TRANSMITTANCE<br>EN 167:2001 Pto 7                                | PASS      |
|                  | RESISTANCE TO UV RADIATION<br>EN 168:2001 Pto.6 / EN 167:2001 Pto 4.2.2                     | PASS      |
| 2023EC0148-S01.2 | DIFFUSION OF THE LIGHT<br>EN 167:2001 Pto 4.2.2   | PASS      |
|                  | EVALUATION OF THE MATERIAL QUALITY AND SURFACE<br>EN 167:2001 Pto.5                         | PASS      |
|                  | VARIATION OF THE LUMINOUS TRANSMITTANCE<br>EN 167:2001 Pto 7                                | PASS      |
|                  | RESISTANCE TO FOGGING<br>EN 168:2001 Pto.16   | NO PASS   |
| 2023EC0148-S01.3 | DIFFUSION OF THE LIGHT<br>EN 167:2001 Pto 4.2.2   | PASS      |
|                  | EVALUATION OF THE MATERIAL QUALITY AND SURFACE<br>EN 167:2001 Pto.5                         | PASS      |
|                  | VARIATION OF THE LUMINOUS TRANSMITTANCE<br>EN 167:2001 Pto 7                                | PASS      |

EN 166:2001



|             | Reference        | Test/Standard   | Result           |
|-------------|------------------|---|------------------|
| EN 169:2002 | 2023EC0148-S01.3 | WELDING TRANSMITTANCE<br>EN 167:2001 Pto 6                    | NO PASS          |
| EN 170:2002 | 2023EC0148-S01.1 | VISIBLE AND ULTRAVIOLET<br>TRANSMITTANCE<br>EN 167:2001 Pto 6 | CLASS 2C-<br>1,2 |
|             | 2023EC0148-S01.2 | VISIBLE AND ULTRAVIOLET<br>TRANSMITTANCE<br>EN 167:2001 Pto 6 | CLASS 2C-<br>1,2 |



## REQUIREMENT SUMMARY

### DETERMINATION OF SPHERICAL, ASTIGMATIC AND PRISMATIC REFRACTIVE POWERS

Requirements to assess the spherical, astigmatic and prismatic refractive powers according to the standard EN 166:2001 point 7.1.2.1.2.

| OPTICAL CLASS | SPHERICAL POWER<br>( $D_1+D_2$ )/2<br>( $m^{-1}$ ) | ASTIGMATIC POWER<br>$ D_1-D_2 $ ( $m^{-1}$ ) | PRISMATIC POWERS<br>IMBALANCE<br>cm/m |         |          |
|---------------|--|--|---------------------------------------|---------|----------|
|               |  |  | Horizontal                            |         | Vertical |
|               |  |  | Base out                              | Base in |          |
| 1             | $\pm 0,06$   | 0,06   | 0,75                                  | 0,25    | 0,25     |
| 2             | $\pm 0,12$   | 0,12   | 1,00                                  | 0,25    | 0,25     |
| 3             | + 0,12<br>- 0,25                                   | 0,25   | 1,00                                  | 0,25    | 0,25     |

### DIFFUSION OF THE LIGHT

Requirements for the evaluation of the diffusion light for eye protectors according to standard EN 166:2001 (point 7.1.2.3).

Maximum value of reduced luminance factor according to EN 166:2001 point 7.1.2.3

| Reduced luminance factor | Welding filters | Oculars for protection against high-speed particles | Other ocular |
|--------------------------|-----------------|---|--------------|
| ( $cd / m^2 * lx$ )      | 1,00            | 0,75  | 0,50         |

### EVALUATION OF THE MATERIAL QUALITY AND SURFACE

Requirements for the evaluation of the quality of the material and surface of the eye protector according to standard EN 166:2001 (point 7.1.3).

Except for a 5 mm wide marginal band, the eyepieces must be free of any significant defect that may alter vision during use, such as bubbles, scratches, inclusions, spots, pitting, mold marks, threads, roughness, peeling, slits and ripples.

### VARIATION OF THE LUMINOUS TRANSMITTANCE

Requirement to assess the uniformity of luminous transmittance in eye protectors according to the standard EN 166:2001 (point 7.1.2.2.3).



- The relative variations in the value of the luminous transmittance ( $\tau_V$ ) around the road centers shall not exceed the values in the table.
- The relative deviation between the two visual centers of the right and left eyepieces should not exceed the values in the table or 20%, taking the greater value.

| Luminous transmittance<br>$\tau_V$ (%) |          | Admissible relative<br>variation<br>$\Delta\tau$ (%) |
|--|----------|--|
| Lower than                             | Till     |  |
| 100                                    | 17.8     | $\pm 5$  |
| 17.8                                   | 0.44     | $\pm 10$   |
| 0.44                                   | 0.023    | $\pm 15$   |
| 0.023                                  | 0.0012   | $\pm 20$   |
| 0.0012                                 | 0.000023 | $\pm 30$   |

## INCREASED ROBUSTNESS

Requirements of the test of increased strength for eye protectors according to standard EN 166:2001 (point 7.1.4.2.2)

After the test should not occur:

| Fracture of the ocular | Deformation of the ocular | Fracture of the ocular rim or<br>mount | Failure in lateral<br>protection |
|------------------------|---------------------------|--|----------------------------------|
|                        |                           |  |                                  |

## STABILITY AT HIGH TEMPERATURE

Requirement to be met according to the standard EN 166:2001 point 7.1.5.1

Full protectors shall not show apparent deformation.

## RESISTANCE TO UV RADIATION

Requirements for the evaluation of the diffusion light for eye protectors according to standard EN 166:2001 (point 7.1.2.3) and EN 166: 2001 (point 7.1.5.2).

Maximum value of reduced luminance factor according to EN 166:2001 point 7.1.2.3

The relative variations in the value of the luminous transmittance ( $\tau_V$ ) shall not exceed the values in the table.



| Reduced luminance factor | Welding filters | Oculars for protection against high-speed particles | Other ocular |
|--------------------------|-----------------|---|--------------|
| cd / m <sup>2</sup> lx   | 1.00            | 0.75  | 0.50         |

| Luminous transmittance<br>$\tau_V$ (%) |          | Admissible relative variation (%) |
|--|----------|-----------------------------------|
| Lower than                             | Till     |                                   |
| 100                                    | 17.8     | ±5                                |
| 17.8                                   | 0.44     | ±10                               |
| 0.44                                   | 0.023    | ±15                               |
| 0.023                                  | 0.0012   | ±20                               |
| 0.0012                                 | 0.000023 | ±30                               |

## RESISTANCE TO IGNITION

Requirement to be met according to the standard EN 166:2001 point 7.1.7.

No part of the ocular protector ignites or continues to glow after the steel rod has been removed.

## CORROSION RESISTANCE

Requirements of the test of corrosion resistance for eye protectors according to standard EN 166:2001 (point 7.1.6).

After the test, all metal parts of the eye protector shall have smooth, rust-free surfaces when examined by an experienced observer.

## RESISTANCE TO THE IMPACT TO HIGH SPEED PARTICLES

Requirements of the test of resistance against particle impacts at high speed for eye protectors according to standard EN 166:2001 (point 7.2.2).

| Fracture of the ocular | Deformation of the ocular | Fracture of the ocular rim or mount | Failure in lateral protection |
|------------------------|---------------------------|-------------------------------------|-------------------------------|
|------------------------|---------------------------|-------------------------------------|-------------------------------|

## RESISTANCE TO FOGGING

Requirement to be met according to EN 166:2001 point 7.3.2.

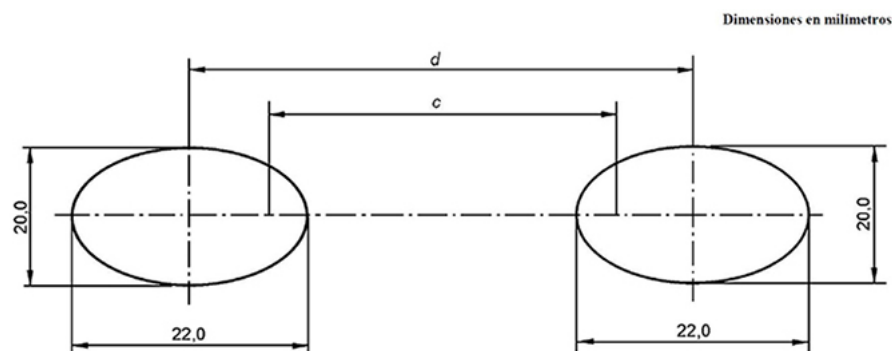
The oculars shall remain free of fogging for a minimum period of 8 seconds after the test.



## ASSESSMENT OF FIELD OF VISION

**Requirements for the evaluation of the field of vision for eye-protector according to standard EN 166:2001 (point 7.1.1).**

The eye protectors shall have, at least, a field of vision defined by the two ellipses of Figure 1 of the standard when placed and centred at a distance of 25 mm from the surface of the eyes of the appropriate test head. The axis Horizontal should be parallel to, and 0.7 mm below, the line connecting the centres of both eyes. The ellipses must have a horizontal width of 22.0 mm and a vertical width of 20.0 mm. The distance between centres of the two ellipses should be  $d = c + 6$  mm, where  $c$  is the interpupillary distance. The interpupillary distance of the head is 64 mm and the small test head is 54 mm, if the manufacturer does not indicate otherwise.



## EVALUATION OF LATERAL PROTECTION

**Requirements for the evaluation of the lateral protection for eye protectors according to standard EN 166:2001 (point 7.2.8)**

The lateral protection shall prevent contact between the end of the rod and the impact areas of the test head.

## VISIBLE AND ULTRAVIOLET TRANSMITTANCE

**Requirements for the evaluation of the visible and ultraviolet transmittance for eye protectors according to the standards EN 166:2001 (point 6) and EN 170: 2002 (point 5).**





| Protection class | Maximum spectral transmittance in UV<br>$t(\lambda)$ |             | Visible transmission coefficient<br>$\tau_v$ |              |
|------------------|--|-------------|--|--------------|
|                  | 313 nm<br>%  | 365 nm<br>% | Maximum<br>%                                 | Minimum<br>% |
| 2-1.2            | 0.0003   | 10          | 100  | 74.4         |
| 2-1.4            | 0.0003   | 9           | 74.4   | 58.1         |
| 2-1.7            | 0.0003   | 7           | 58.1   | 43.2         |
| 2-2              | 0.0003   | 5           | 43.2   | 29.1         |
| 2-2.5            | 0.0003   | 3           | 29.1   | 17.8         |
| 2-3              | 0.0003   | 2           | 17.8   | 8.5          |
| 2-4              | 0.0003   | 0.8         | 8.5  | 3.2          |
| 2-5              | 0.0003   | 0.3         | 3.2  | 1.2          |

Additional requirements:

1. For  $210 \text{ nm} \leq \lambda \leq 313 \text{ nm}$ , spectral transmittance shall not be greater than specified value for 313 nm;
2. For  $313 \text{ nm} < \lambda \leq 365 \text{ nm}$ , spectral transmittance shall not be greater than specified value for 365 nm;
3. For  $365 \text{ nm} < \lambda \leq 405 \text{ nm}$ , spectral transmittance shall not be greater than visible transmittance coefficient.

Eyepieces with enhanced color recognition (optional):

1. For wavelengths between 500 nm and 650 nm, the spectral transmittance coefficient shall not be lower than 0.2  $\tau_v$ ;
2. The relative visual attenuation coefficient Q, for red, yellow, green and blue signal light shall not be lower than 0.8.

**SAMPLE/S DESCRIPTION**

| AITEX Reference | Description of the sample  |
|-----------------|----------------------------|
| 2023EC0148-S01  | Spectacles with clear lens |



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## RESULTS

### DETERMINATION OF SPHERICAL, ASTIGMATIC AND PRISMATIC REFRACTIVE POWERS

#### Standard

EN 167:2001 (point 3.2)

#### Apparatus

Refractive powers test equipment

#### Ambient condition test

| Date test  | Initial | Final   |
|------------|---------|---------|
| 19/04/2023 | 17 °C   | 19,2 °C |

#### Uncertainty

The expanded uncertainty is  $\pm 5\%$  of the value of the measurand for a probability of coverage of 95%.

#### Reference

2023EC0148-S01

| Specimen no. | Spherical power (D) | Astigmatic power (D) |
|--------------|---------------------|----------------------|
| 1 R          | -0,04               | 0,00                 |
| 1 L          | -0,06               | 0,00                 |
| 2 R          | -0,06               | 0,00                 |
| 2 L          | -0,05               | 0,00                 |
| 3 R          | -0,05               | 0,00                 |
| 3 L          | -0,05               | 0,00                 |

R: right eye - L: left eye

#### Type of prismatic effect

Base Out

| Specimen no. | Horizontal prism imbalance (cm/m) | Vertical prism imbalance (cm/m) |
|--------------|-----------------------------------|---------------------------------|
| 1            | 0,45                              | 0,05                            |
| 2            | 0,40                              | 0,10                            |
| 3            | 0,45                              | 0,10                            |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### DIFFUSION OF THE LIGHT

#### Standard

EN 167:2001 (point 4.2.2)

#### Apparatus

Diffusion light equipment

#### Test room conditions for testing

| Test date  | Initial | Final   |
|------------|---------|---------|
| 19/04/2023 | 18,7 °C | 24,1 °C |

#### Uncertainty

The expanded uncertainty is  $\pm 4\%$  of the value of the measurand for a probability of coverage of 95%.

#### Reference

2023EC0148-S01.1

| Specimen no. | Reduced luminance factor<br>( $\text{cd} \cdot \text{m}^{-2} \cdot \text{lx}^{-1}$ ) |
|--------------|--|
| 1 R          | 0,67   |
| 1 L          | 0,54   |
| 2 R          | 0,74   |
| 2 L          | 0,71   |
| 3 R          | 0,30   |
| 3 L          | 0,48   |

R: Right eye - L: Left eye

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### DIFFUSION OF THE LIGHT

#### Standard

EN 167:2001 (point 4.2.2)

#### Apparatus

Diffusion light equipment

#### Test room conditions for testing

| Test date  | Initial | Final   |
|------------|---------|---------|
| 19/04/2023 | 18,7 °C | 24,1 °C |

#### Uncertainty

The expanded uncertainty is  $\pm 4\%$  of the value of the measurand for a probability of coverage of 95%.

#### Reference

2023EC0148-S01.2

| Specimen no. | Reduced luminance factor<br>( $\text{cd} \cdot \text{m}^{-2} \cdot \text{lx}^{-1}$ ) |
|--------------|--|
| 1 R          | 0,09   |
| 1 L          | 0,23   |
| 2 R          | 0,27   |
| 2 L          | 0,70   |
| 3 R          | 0,73   |
| 3 L          | 0,42   |

R: Right eye - L: Left eye

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### DIFFUSION OF THE LIGHT

#### Standard

EN 167:2001 (point 4.2.2)

#### Apparatus

Diffusion light equipment

#### Test room conditions for testing

| Test date  | Initial | Final   |
|------------|---------|---------|
| 19/04/2023 | 18,7 °C | 24,1 °C |

#### Observation or deviation of the standard

values are taken from the clear lens due to the green color of the lens

#### Uncertainty

The expanded uncertainty is  $\pm 4$  % of the value of the measurand for a probability of coverage of 95%.

#### Reference

2023EC0148-S01.3

| Specimen no. | Reduced luminance factor<br>( $\text{cd} \cdot \text{m}^{-2} \cdot \text{lx}^{-1}$ ) |
|--------------|--|
| 1 R          | 0,67   |
| 1 L          | 0,54   |
| 2 R          | 0,74   |
| 2 L          | 0,71   |
| 3 R          | 0,30   |
| 3 L          | 0,48   |

R: Right eye - L: Left eye

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### EVALUATION OF THE MATERIAL QUALITY AND SURFACE

**Standard**

EN 167:2001 (point 5)

**Test date**

19/04/2023

**Apparatus**

Illuminated grid

**Reference**

2023EC0148-S01.1

| Sample no. | It is appreciated any significant defect in the eyepieces |
|------------|---|
| 1          | NO  |
| 2          | NO  |
| 3          | NO  |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### EVALUATION OF THE MATERIAL QUALITY AND SURFACE

**Standard**

EN 167:2001 (point 5)

**Test date**

19/04/2023

**Apparatus**

Illuminated grid

**Reference**

2023EC0148-S01.2

| Sample no. | It is appreciated any significant defect in the eyepieces |
|------------|---|
| 1          | NO  |
| 2          | NO  |
| 3          | NO  |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### EVALUATION OF THE MATERIAL QUALITY AND SURFACE

**Standard**

EN 167:2001 (point 5)

**Test date**

19/04/2023

**Apparatus**

Illuminated grid

**Reference**

2023EC0148-S01.3

| Sample no. | It is appreciated any significant defect in the eyepieces |
|------------|---|
| 1          | NO  |
| 2          | NO  |
| 3          | NO  |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### VARIATION OF THE LUMINOUS TRANSMITTANCE

#### Standard

EN 167:2001 (point 7)

#### Apparatus

Equipment for uniformity of transmittance measurement

#### Test date

25/04/2023

#### Uncertainty

The expanded uncertainty is  $\pm 3\%$  of the value of the measurand for a probability of coverage of 95%.

#### Reference

2023EC0148-S01.1

| Sample no. | Right ocular<br>$\Delta T$ (%) | Left ocular<br>$\Delta T$ (%) | Between both<br>oculars<br>$\Delta T$ (%) |
|------------|--------------------------------|-------------------------------|---|
| 1          | 1,1                            | 2,4                           | 0,3                                       |
| 2          | 1                              | 2,3                           | 0,4                                       |
| 3          | 1,2                            | 2,5                           | 0,3                                       |

R: Right eye; L: Left eye

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### VARIATION OF THE LUMINOUS TRANSMITTANCE

#### Standard

EN 167:2001 (point 7)

#### Apparatus

Equipment for uniformity of transmittance measurement

#### Test date

25/04/2023

#### Uncertainty

The expanded uncertainty is  $\pm 3\%$  of the value of the measurand for a probability of coverage of 95%.

#### Reference

2023EC0148-S01.2

| Sample no. | Right ocular<br>$\Delta T$ (%) | Left ocular<br>$\Delta T$ (%) | Between both<br>oculars<br>$\Delta T$ (%) |
|------------|--------------------------------|-------------------------------|---|
| 1          | 0,9                            | 2,1                           | 0,4                                       |
| 2          | 1                              | 2,2                           | 0,4                                       |
| 3          | 1,1                            | 2,1                           | 0,5                                       |

R: Right eye; L: Left eye

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### VARIATION OF THE LUMINOUS TRANSMITTANCE

**Standard**

EN 167:2001 (point 7)

**Apparatus**

Equipment for uniformity of transmittance measurement

**Test date**

25/04/2023

**Uncertainty**The expanded uncertainty is  $\pm 3\%$  of the value of the measurand for a probability of coverage of 95%.**Reference**

2023EC0148-S01.3

| Sample no. | Right ocular<br>$\Delta T$ (%) | Left ocular<br>$\Delta T$ (%) | Between both<br>oculars<br>$\Delta T$ (%) |
|------------|--------------------------------|-------------------------------|---|
| 1          | 10                             | 12,6                          | 13,2                                      |
| 2          | 11,3                           | 11,6                          | 13,4                                      |
| 3          | 12,1                           | 12,4                          | 12,7                                      |

R: Right eye; L: Left eye

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### INCREASED STRENGTH

#### Standard

EN 168:2001 (point 3)

#### Apparatus

Equipment of steel ball fall

#### Test date

12/04/2023

#### Test room conditions for testing

| Initial temperature | Final temperature |
|---------------------|-------------------|
| 22,7 °C             | 23,2 °C           |

#### Sample pre-conditioning

- Samples 1, 2, 3, 4, 5 y 6: conditioning at a temperature of  $(55 \pm 2)$  ° C for at least 1 h.
- Samples 7, 8, 9,10, 11 and 12: conditioning at a temperature of  $(-5 \pm 2)$  ° C for at least 1 h.

#### Reference

2023EC0148-S01

| FRONTAL IMPACT, RIGHT OCULAR |                 |                    |                       |                               |
|------------------------------|-----------------|--------------------|-----------------------|-------------------------------|
| It is appreciated            |                 |                    |                       |                               |
| Sample no.                   | Ocular fracture | Ocular deformation | Fracture of the frame | Failure in lateral protection |
| 1                            | NO              | NO                 | NO                    | NO                            |
| 2                            | NO              | NO                 | NO                    | NO                            |
| 7                            | NO              | NO                 | NO                    | NO                            |
| 8                            | NO              | NO                 | NO                    | NO                            |

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| <b>FRONTAL IMPACT, LEFT OCULAR</b> |                        |                           |                              |                                      |
|------------------------------------|------------------------|---------------------------|------------------------------|--------------------------------------|
| <b>It is appreciated</b>           |                        |                           |                              |                                      |
| <b>Sample no.</b>                  | <b>Ocular fracture</b> | <b>Ocular deformation</b> | <b>Fracture of the frame</b> | <b>Failure in lateral protection</b> |
| <b>3</b>                           | NO                     | NO                        | NO                           | NO                                   |
| <b>4</b>                           | NO                     | NO                        | NO                           | NO                                   |
| <b>9</b>                           | NO                     | NO                        | NO                           | NO                                   |
| <b>10</b>                          | NO                     | NO                        | NO                           | NO                                   |

| <b>LATERAL IMPACT, RIGHT OCULAR</b> |                        |                           |                              |                                      |
|-------------------------------------|------------------------|---------------------------|------------------------------|--------------------------------------|
| <b>It is appreciated</b>            |                        |                           |                              |                                      |
| <b>Sample no.</b>                   | <b>Ocular fracture</b> | <b>Ocular deformation</b> | <b>Fracture of the frame</b> | <b>Failure in lateral protection</b> |
| <b>5</b>                            | NO                     | NO                        | NO                           | NO                                   |
| <b>11</b>                           | NO                     | NO                        | NO                           | NO                                   |

| <b>LATERAL IMPACT, LEFT OCULAR</b> |                        |                           |                              |                                      |
|------------------------------------|------------------------|---------------------------|------------------------------|--------------------------------------|
| <b>It is appreciated</b>           |                        |                           |                              |                                      |
| <b>Sample no.</b>                  | <b>Ocular fracture</b> | <b>Ocular deformation</b> | <b>Fracture of the frame</b> | <b>Failure in lateral protection</b> |
| <b>6</b>                           | NO                     | NO                        | NO                           | NO                                   |
| <b>12</b>                          | NO                     | NO                        | NO                           | NO                                   |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### STABILITY AT HIGH TEMPERATURE

**Standard**

EN 168:2001 (point 5)

**Apparatus**

Forced air stove

**testing date**

12/04/2023

**Sample conditioning**

Samples 1, 2 and 3: conditioning at a temperature of  $(55 \pm 2)^\circ\text{C}$  for  $(60 \pm 5)$  min + stabilize at  $(23 \pm 5)^\circ\text{C}$  during 60 min.

**Reference**

2023EC0148-S01

| Sample no. | Deformation observed in the ocular protector |
|------------|--|
| 1          | NO   |
| 2          | NO   |
| 3          | NO   |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### RESISTANCE TO UV RADIATION

#### DIFFUSION OF THE LIGHT

**Standard**

EN 168:2001 (point 6) and EN 167:2001 (point 4.2.2)

**Apparatus**

Diffusion light equipment

**Start test date**

25/04/2023

**End test date**

28/04/2023

**Sample conditioning**

Samples 1, 2 and 3: UV ageing conditioning (50 h  $\pm$  0.2 h).

**Uncertainty**

The expanded uncertainty is  $\pm$  4 % of the value of the measurand for a probability of coverage of 95%.

**Reference**

2023EC0148-S01.1

| Sample No | Reduced luminance factor<br>( $\text{cd} \cdot \text{m}^{-2} \cdot \text{lx}^{-1}$ ) |
|-----------|--|
| 1 R       | 0,45   |
| 2 L       | 0,48   |
| 3 R       | 0,57   |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## TRANSMITTANCE

### Standard

EN 168:2001 (point 6) and EN 167:2001 (point 6)

### Apparatus

Ocular spectrophotometer.

### Start test date

25/04/2023

### End test date

28/04/2023

### Sample Conditioning

Samples 1, 2 and 3: UV ageing conditioning (50 h  $\pm$  0.2 h).

### Uncertainty

The expanded uncertainty is  $\pm$  3 % of the value of the measurand for a probability of coverage of 95%.

### Reference

2023EC0148-S01.1

| Sample no. | Luminous transmittance $T_v$ (380 nm – 780 nm) % | Luminous transmittance after the UV treatment $T_v$ (380 nm – 780 nm) % | Relative variation (%) |
|------------|--|---|------------------------|
| 1 R        | 83,9   | 85,3  | 1,7                    |
| 2 L        | 84,6   | 85,1  | 0,6                    |
| 3 R        | 84,2   | 85,9  | 2,0                    |

R: Right eye - L: Left eye

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### RESISTANCE TO IGNITION

**Standard**

EN 168:2001 (point 7)

**Apparatus**

Steel rod of 300 mm, thermocouple type K with multifunction equipment and ignition equipment.

**Test date**

20/04/2023

**Test room conditions for testing**

| Initial temperature | Final temperature |
|---------------------|-------------------|
| 18,4 °C             | 18,8 °C           |

**Reference**

2023EC0148-S01

**After the steel rod removal, the ocular protector ignites or continues to glow**

| Sample no. | Lens | Anti-fog lens | Welding lens | Temples |
|------------|------|---------------|--------------|---------|
| 1          | NO   | NO            | NO           | NO      |
| 2          | NO   | NO            | NO           | NO      |
| 3          | NO   | NO            | NO           | NO      |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### CORROSION RESISTANCE

**Standard**

EN 168:2001 (point 8)

**Apparatus**

Heater

**Testing date**

25/04/2023

**Test room conditions for testing**

| Initial | Final   |
|---------|---------|
| 21,8 °C | 22,5 °C |

**Sample conditioning**

The sample is immersed in an aqueous solution of boiling sodium chloride for 15 min.

The sample is immersed in an aqueous solution of sodium chloride at ambient temperature for 15 min.

Let it dry during 24 hours at  $(23 \pm 5)$  °C.

**Reference**

2023EC0148-S01

| Sample no. | The metal parts show soft surface and lack oxidation. |
|------------|---|
| 1          | YES   |
| 2          | YES   |
| 3          | YES   |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### RESISTANCE TO THE IMPACT TO HIGH SPEED PARTICLES

**Standard**

EN 168:2001 (point 9)

**Apparatus**

Equipment propeller steel ball

**Date test**

25/04/2023

**Test room conditions for testing**

| Initial | Final   |
|---------|---------|
| 22,1 °C | 23,5 °C |

**Speed impact**

45 m/s

**Reference**

2023EC0148-S01

| FRONTAL IMPACT, RIGHT OCULAR |                 |                    |                       |                               |
|------------------------------|-----------------|--------------------|-----------------------|-------------------------------|
| It is appreciated            |                 |                    |                       |                               |
| Sample no.                   | Ocular fracture | Ocular deformation | Fracture of the frame | Failure in lateral protection |
| 1                            | NO              | NO                 | NO                    | NO                            |
| 2                            | NO              | NO                 | NO                    | NO                            |
| 7                            | NO              | NO                 | NO                    | NO                            |
| 8                            | NO              | NO                 | NO                    | NO                            |

| FRONTAL IMPACT, LEFT OCULAR |                 |                    |                       |                               |
|-----------------------------|-----------------|--------------------|-----------------------|-------------------------------|
| It is appreciated           |                 |                    |                       |                               |
| Sample no.                  | Ocular fracture | Ocular deformation | Fracture of the frame | Failure in lateral protection |
| 3                           | NO              | NO                 | NO                    | NO                            |
| 4                           | NO              | NO                 | NO                    | NO                            |
| 9                           | NO              | NO                 | NO                    | NO                            |
| 10                          | NO              | NO                 | NO                    | NO                            |

&gt;&gt;&gt;



| <b>LATERAL IMPACT</b>    |                        |                           |                              |                                      |
|--------------------------|------------------------|---------------------------|------------------------------|--------------------------------------|
| <b>It is appreciated</b> |                        |                           |                              |                                      |
| <b>Sample no.</b>        | <b>Ocular fracture</b> | <b>Ocular deformation</b> | <b>Fracture of the frame</b> | <b>Failure in lateral protection</b> |
| <b>5 R</b>               | NO                     | NO                        | NO                           | NO                                   |
| <b>6 L</b>               | NO                     | NO                        | NO                           | NO                                   |
| <b>11 R</b>              | NO                     | NO                        | NO                           | NO                                   |
| <b>12 L</b>              | NO                     | NO                        | NO                           | NO                                   |

R: Right eye - L: Left eye

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### RESISTANCE TO FOGGING

**Standard**

EN 168:2001 (point 16)

**Apparatus**

Fogging equipment

**Date test**

27/04/2023

**Test room conditions for testing**

| Initial temperature | Final temperature |
|---------------------|-------------------|
| 22,5 °C             | 22,5 °C           |

**Sample conditioning**1h-2h submerged in distilled water at  $(23 \pm 5)$  °C, then at least 12h at  $(23 \pm 5)$  °C and 50% RH for drying.**Uncertainty**The expanded uncertainty is  $\pm 3$  % of the value of the measurand for a probability of coverage of 95%.**Reference**

2023EC0148-S01.2

| Sample no. | Transmission factor (%) at 8 s |
|------------|--------------------------------|
| 1          | 0                              |
| 2          | 0                              |
| 3          | 0                              |
| 4          | 1                              |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### ASSESSMENT TEST VISUAL FIELD

**Standard**

EN 168:2001 (point 18)

**Test date**

19/04/2023

**Apparatus**

Field of vision measurement equipment

**Reference**

2023EC0148-S01

| Sample no. | Laser reaches some of the edges of the ocular protector |
|------------|---|
| 1          | NO  |
| 2          | NO  |
| 3          | NO  |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### EVALUATION OF LATERAL PROTECTION

**Standard**

EN 168:2001 (point 19)

**Apparatus**

Steel rod of 125 mm

**Test date**

27/04/2023

**Reference**

2023EC0148-S01

| Sample no. | Contact of the rod on the impact zones of the test head |
|------------|---|
| 1          | NO  |
| 2          | NO  |
| 3          | NO  |

The test was carried out at APPE Laboratory located at Polígono Industrial Santiago Payá C/ Filá Benimerines, 25 B – 03801 Alcoy (Alicante).

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## RESULTS

### VISIBLE AND ULTRAVIOLET TRANSMITTANCE

**Standard**

EN 167:2001 (point 6) and EN 170:2002

**Apparatus**

Ocular spectrophotometer

**Test date**

26/04/2023

**Observation or deviation of the standard**

The test is carried out using a filter to neutralize the fluorescence phenomenon that the sample presents.

**Uncertainty**

The expanded uncertainty is  $\pm 3\%$  of the value of the measurand for a probability of coverage of 95%.

**Reference**

2023EC0148-S01.1

| Sample no. | Luminous transmittance $T_v(380\text{ nm} - 780\text{ nm})\%$ |
|------------|---|
| 1 R        | 83,9  |
| 1 L        | 83,7  |
| 2 R        | 84,5  |
| 2 L        | 84,6  |
| 3 R        | 84,2  |
| 3 L        | 85,2  |

R: Right eye - L: Left eye

>>>



| Sample no. | Range                                 | Spectral transmittance $T_{(\lambda)}$ % | Relative visual attenuation quotient (Q) |
|------------|---------------------------------------|--|--|
| <b>1 R</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0002                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 60,4                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 83,2                                     |  |
| <b>1 L</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0002                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 58,4                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 83,0                                     |  |
| <b>2 R</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0002                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 60,7                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 83,8                                     |  |
| <b>2 L</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0001                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 58,8                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 84,1                                     |  |
| <b>3 R</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0001                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 60,8                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 83,4                                     |  |
| <b>3 L</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0002                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 58,5                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 84,7                                     |  |

R: Right eye - L: Left eye

///



## RESULTS

### VISIBLE AND ULTRAVIOLET TRANSMITTANCE

**Standard**

EN 167:2001 (point 6) and EN 170:2002

**Apparatus**

Ocular spectrophotometer

**Test date**

26/04/2023

**Observation or deviation of the standard**

The test is carried out using a filter to neutralize the fluorescence phenomenon that the sample presents.

**Uncertainty**

The expanded uncertainty is  $\pm 3\%$  of the value of the measurand for a probability of coverage of 95%.

**Reference**

2023EC0148-S01.2

| Sample no. | Luminous transmittance $T_v(380\text{ nm} - 780\text{ nm})\%$ |
|------------|---|
| 1 R        | 87,8  |
| 1 L        | 87,9  |
| 2 R        | 87,2  |
| 2 L        | 88,6  |
| 3 R        | 87,7  |
| 3 L        | 87,1  |

R: Right eye - L: Left eye

>>>



| Sample no. | Range                                 | Spectral transmittance $T_{(\lambda)}$ % | Relative visual attenuation quotient (Q) |
|------------|---------------------------------------|--|--|
| <b>1 R</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0002                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 65,0                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 87,1                                     |  |
| <b>1 L</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0002                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 60,2                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 86,7                                     |  |
| <b>2 R</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0001                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 65,2                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 86,2                                     |  |
| <b>2 L</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0002                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 61,4                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 87,8                                     |  |
| <b>3 R</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0001                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 65,2                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 87,9                                     |  |
| <b>3 L</b> | 210 nm $\leq$ $\lambda$ $\leq$ 313 nm | 0,0002                                   | $\geq 0,8$                               |
|            | 313 nm $\leq$ $\lambda$ $\leq$ 365 nm | 0,0                                      |  |
|            | 365 nm $\leq$ $\lambda$ $\leq$ 405 nm | 62,2                                     |  |
|            | 500 nm $\leq$ $\lambda$ $\leq$ 650 nm | 86,3                                     |  |

R: Right eye - L: Left eye

///



## RESULTS

### TRANSMITTANCE

#### Standard

EN 167:2001 (point 6)

#### Apparatus

Ocular spectrophotometer

#### Test date

26/04/2023

#### Uncertainty

The expanded uncertainty is  $\pm 3\%$  of the value of the measurand for a probability of coverage of 95%.

#### Reference

2023EC0148-S01.3

| Sample no. | Visible transmittance $\lambda_v$<br>(380 nm – 780 nm) % |
|------------|--|
| 1 R        | 0,4  |
| 1 L        | 0,4  |
| 2 R        | 0,4  |
| 2 L        | 0,4  |
| 3 R        | 0,3  |
| 3 L        | 0,3  |

R: Right eye - L: Left eye

#### Spectral transmittance $v(\lambda)$ %

| $\lambda$ (nm)               | 1 R    | 1 L    | 2 R    | 2 L    | 3 R    | 3 L    |
|------------------------------|--------|--------|--------|--------|--------|--------|
| $210 \leq \lambda \leq 313$  | 0,0001 | 0,0001 | 0,0001 | 0,0001 | 0,0001 | 0,0000 |
| $313 \leq \lambda \leq 365$  | 0,00   | 0,00   | 0,00   | 0,00   | 0,00   | 0,00   |
| $365 \leq \lambda \leq 380$  | 0,0    | 0,0    | 0,0    | 0,0    | 0,0    | 0,0    |
| $\lambda \leq 480$           | 0,0    | 0,0    | 0,0    | 0,0    | 0,0    | 0,0    |
| $380 \leq \lambda \leq 480$  | 0,0    | 0,0    | 0,0    | 0,0    | 0,0    | 0,0    |
| $500 \leq \lambda \leq 650$  | 0,2    | 0,2    | 0,2    | 0,2    | 0,2    | 0,2    |
| $780 \leq \lambda \leq 1400$ | 96,1   | 92,4   | 94,1   | 86,1   | 98,8   | 94,2   |

R: Right eye - L: Left eye

| Sample no. | Q (red) | Q (yellow) | Q (green) | Q (blue) |
|------------|---------|------------|-----------|----------|
| 1 R        | 1,4     | 1,0        | 1,2       | 2,0      |
| 1 L        | 1,3     | 1,0        | 1,2       | 1,9      |
| 2 R        | 1,3     | 1,0        | 1,2       | 1,9      |
| 2 L        | 1,4     | 1,0        | 1,2       | 2,0      |
| 3 R        | 1,5     | 1,0        | 1,2       | 2,1      |
| 3 L        | 1,5     | 1,0        | 1,2       | 2,1      |

R: Right eye - L: Left eye

///



**Jorge Beltrá**  
Head of Advanced Personal Protective Equipments Lab



Date: 28/04/2023 14:11:12

Digitally Signed by:JORGE BELTRA BONILLO -

NIF:20051852S

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