

TEST REPORT

Report No. : YA90062/2024

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Date : SEP. 23, 2024

CORTINA NV

Meersbloem-Meldan 42, 9700 Oudenaarde, Belgium

The following merchandise was submitted and identified by the applicant as:

Product Description: Personal eye-protector
Style/Item No.: YALA, YALA SUN
Brand Name: SAFETY JOGGER

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Requested: ANSI/ISEA Z87.1-2020 American National Standard for Occupational and Educational Personal Eye and Face Protection Devices

Optional Requirements: Clear Lens:
7.1 Impact Protector Requirements(+)
7.2 Optical Radiation Protector Requirements Table 8(U)


Smoke Lens:
7.2 Optical Radiation Protector Requirements Table 8(U), Table 10(L)

Test Method & Result: --- See following sheet(s) ---

Date of Receipt: SEP. 11, 2024

Testing Period: SEP. 11 ~ 23, 2024

Signed for and on behalf of
SGS Taiwan Ltd.


Justin Yang
Asst. Supervisor



Testing site:
7F., No. 6, Central 4th Road, Qianzhen Dist., Kaohsiung City, Taiwan

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Test Method & Result**ANSI/ISEA Z87.1-2020 American National Standard for Occupational and Educational Personal Eye and Face Protection Devices**Section

5. General Requirements

5.1 Optical Requirements

5.1.1 Optical Quality

ResultPass

5.1.2 Luminous Transmittance

Pass**Finding (Clear Lens)**

Lens Type	Luminous Transmittance Requirement	Test Value	
		Left Ocular	Right Ocular
Clear Lenses	85% min.	92.40 %	93.30 %

5.1.3 Haze

Pass**Finding (Clear Lens)**

Lens Type	Haze Requirement	Test Value	
		Left Ocular	Right Ocular
Clear Lenses	3% max. – Clear Lenses Only	0.3 %	0.2 %

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Test Result**Section**

5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors

Result**Pass****Finding (Clear Lens)**

Test/Property	Requirement	Test Value	
		Left Ocular	Right Ocular
Refractive Power	See Table 1	-0.01	0.00
Astigmatism		0.04	0.05
Resolving Power		Pattern 20	Pattern 20
Prism	See Table 2	< 0.50 Δ	< 0.50 Δ
Vertical Prism Imbalance		0.00 Δ	
Horizontal Prism Imbalance		0.05 Δ (Base In)	

Finding (Smoke Lens)

Test/Property	Requirement	Test Value	
		Left Ocular	Right Ocular
Refractive Power	See Table 1	-0.01	0.00
Astigmatism		0.04	0.04
Resolving Power		Pattern 20	Pattern 20
Prism	See Table 2	< 0.50 Δ	< 0.50 Δ
Vertical Prism Imbalance		0.00 Δ	
Horizontal Prism Imbalance		0.05 Δ (Base In)	

Table 1. Tolerance on Refractive Power, Astigmatism and Resolving Power - Standard Optics

Protector	Refractive Power	Astigmatism	Resolving Power
Spectacle, Reader	±0.06 D	≤ 0.06 D	Pattern 20

Table 2. Tolerance on Prism and Prism Imbalance

Protector	Prism	Vertical Imbalance	Base In Imbalance	Base Out Imbalance
Spectacle, Reader	≤ 0.50 Δ	≤ 0.25 Δ	≤ 0.25 Δ	≤ 0.50 Δ

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Test Result**Section****Result**

5.1.5 Refractive Power, Astigmatism, Prism and Prism Imbalance for Prescription Protectors and Magnifiers

N/A

5.2 Physical Requirements

Pass

5.2.1 Drop Ball Impact Resistance

N/A**Note:** Protectors first tested to and meeting the requirements of Section 7.1.4 are exempt from drop ball impact testing.

5.2.2 Ignition

Pass

5.2.3 Corrosion Resistance of Metal Components

Pass

5.2.4 Minimum Coverage Area

Pass

5.3 Markings

See Finding

Protector markings shall be placed in relatable proximity to each other on the product in the sequence specified below:

-Manufacturer's marks or logos

-Designation of standard (Z87 or Z87-2, for prescription devices)

-Coverage

-Optical level

-Optional Hazard-Specific Marks, as applicable:

-Impact-rated marking (+)

-Optical radiation marking

-droplet and splash marking

-dust marking

-fine dust marking

-Optional Design Marks, as applicable:

-Anti-fog treatment

Finding

Manufacturer's marks or logo	Standard	Impact Mark	Relaxed Optical Level	Lens Type	Use
Lens:					
Frame:			No Claim		

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Test Result**Section****Result**

7 Optional Hazard-Specific Protector Requirements

7.1 Impact Protector Requirements

7.1.1 Protectors Marked for Impact Protection

No Claim

7.1.2 Frames and Shells

Pass

7.1.3 Lateral (Side) Coverage

Pass

7.1.4 Impact Requirements

7.1.4.1 Protector Acceptance Criteria

7.1.4.2 High Mass Impact

Pass**Finding**

Determined	Remark
4 out of 4 Passed	The complete devices met the protector acceptance criteria listed in Section 9.11 after testing.

7.1.4.3 High Velocity Impact

Pass**Finding**

Determined	Remark
6 out of 6 Passed	The complete devices met the protector acceptance criteria listed in Section 9.12 after testing.

Note. 1. Impact ball: 6.00 mm (0.24 in.) diameter steel ball

2. Impact speed: Spectacles: 50.9 m/s.

7.1.4.4 Penetration Test (lenses only)

Pass**Finding**

Determined	Remark
4 out of 4 Passed	The complete devices met the protector acceptance criteria listed in Section 9.13 after testing.

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Test Result**Section**

7.2 Optical Radiation Protector Requirements

7.2.2.1 Filter Lenses

7.2.2.1.1 Transmission Requirements

ResultU6
L2.5**Finding (Clear Lens)**

Table 8. Transmittance Requirements for Ultraviolet Filter Lenses			Test Value (%)	
Scale	Transmittance Requirements (%)		Left Ocular	Right Ocular
U6	Maximum Effective Far-Ultra-Violet Average Transmittance %	0.01	0.006	0.006
	Maximum Near Ultra-Violet Average Transmittance %	0.1	0.02	0.03

Finding (Smoke Lens)

Table 8. Transmittance Requirements for Ultraviolet Filter Lenses			Test Value (%)	
Scale	Transmittance Requirements (%)		Left Ocular	Right Ocular
U6	Maximum Effective Far-Ultra-Violet Average Transmittance %	0.01	0.009	0.002
	Maximum Near Ultra-Violet Average Transmittance %	0.1	0.01	0.01

Finding (Smoke Lens)

Table 10. Luminous Transmittance requirements for Visible Light Filters				Test Value (%)	
Scale	Maximum %	Nominal %	Minimum %	Left Ocular	Right Ocular
L2.5	19	22.8	18	28.22 %	28.53 %

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Test Result**Section**

7.2.2.1.2 Visible Light Filters

ResultPass**Finding (Smoke Lens)**

Primary function and shade	Range	Requirement	Test Value(Tv)	
			Left Ocular	Right Ocular
General Purpose lens or shield, medium to dark	380 ~ 780 nm	8% - 40 %	28.54 %	28.86 %

Color Limit	Test Value			
	Left Ocular		Right Ocular	
	X	Y	X	Y
Green	0.199	0.396	0.198	0.396
Yellow	0.581	0.418	0.581	0.418
D65	0.304	0.325	0.303	0.325

Primary function and shade	Requirement	Test Value (%)	
		Left Ocular	Right Ocular
General Purpose lens or shield, medium to dark	Luminous transmittance \geq 8%	28.54	28.86
	Red signal \geq 8%	30.61	30.98
	Yellow signal \geq 6%	27.56	27.85
	Green signal \geq 6%	29.31	29.65

Range	Requirement (Minimum Spectral Transmittance)	Test Value	
		Left Ocular	Right Ocular
475 ~ 650 nm	\geq 0.2 Tv	0.86 Tv (24.59 %)	0.86 Tv (24.93 %)

Primary function and shade	Range	Requirement	Test Value	
			Left Ocular	Right Ocular
General Purpose lens or shield, medium to dark	UVB (280 ~ 315nm) Normal use	0.125 Tv max.	0.00 %	0.00 %
	UVA (315 ~ 380nm) Normal use	Tv max.	0.01 %	0.01 %

Note: Visible light filters in range of L1.3 through L3 shall also meet the transmittance requirements of Table 4 of ANSI Z80.3-2018, including traffic signal recognition and UV transmittance.

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Test ResultSection

7.2.2.1.3 Variations in Luminous

ResultPass**Finding (Smoke Lens)**

Transmittance requirements for Variations in Luminous		Test Value
Shades 1.3 through 3.0	$0.90 < \text{Ratio} < 1.11$	0.98

Remark:

1. The samples are complete devices claimed by applicant.
2. Samples were provided by applicant and samples were randomly selected to be assessed.
3. N/A = Not Applicable
4. Only applicable sections were shown.
5. The content of this report is invalid if it is not presented as the entire report.
6. The decision rule of the statements of conformity is following the ILAC G8:09/2019 by using the simple acceptance decision rule.

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– Picture(s) –



Photo "A" Appearance of sample (front view)



Photo "B" Appearance of sample (side view)



Photo "C" Appearance of sample (front view)



Photo "D" Appearance of sample (side view)

--- End of Report ---

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