

Test Report T15333-01-1 Issue 1 ANSI/ISEA Z87.1-2020 Shanghai Langfeng Industrial Co., Ltd. SGB1009 Spectacles 23 October 2020



Approved by: Prepared by:

Keith E. Whitten Laboratory Manager Cathy Woloszyn Lab Administrator

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### **Objective:**

Contract testing to ANSI/ISEA Z87.1-2020 "American National Standard for Occupational and Educational Personal Eye and Face Protection Devices".

Clause(s): 5. Fundamental Design Requirements for All Protectors -excluding Markings

### Samples:

### SGB1009 Spectacles

Lens	Quantity	Sample ID
Clear	7	3A

Date(s) submitted: 29 September 2020

#### **Procedures:**

Testing protocols in accord with good laboratory practice were employed for all tests.

All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Samples were randomly selected from the quantity provided and tested in the as-received condition unless otherwise stated.

Testing procedures as specified within Section 9 of ANSI/ISEA Z87.1-2020 were followed unless noted in results.

When applicable, samples were assessed on medium headform (64mm PD).

#### **Assessment Summary:**

Date(s) tested: 08 October 2020

Samples as assessed meet the requirements of ANSI/ISEA Z87.1-2020 for Standard (Non-Impact Rated) Spectacles.





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**Assessment Summary (Continued):** 

Compliant	Non-Compliant			
X				
X				
X				
X				
Not a	pplicable			
X				
X				
X				
Not a	pplicable			
X				
Exc	cluded			
Not a	pplicable			
5.5 Replaceable Lenses Not applicable				
Not a	pplicable			
	X X X X X Not a X X X X Not a X Not a X Not a			





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#### **Results:**

## 5.1.1 Optical Quality; Result: Pass

Lenses are free of striae, bubbles, waves and other visible defects which would impair the wearer's vision.

**5.1.2** Luminous Transmittance (Tv) - ILLA (Clear Lenses)

Sample ID	Left (%)	Right (%)	Left/Right	Pass	Fail
3A-2	90.4	90.5	0.999	X	
Requirement:	≥ 85		N/A		

5.1.3 Haze - Clear Lens Only

	J			
Sample ID Left (%)		Right (%)	Pass	Fail
3A-2	0.29	0.22	X	
Requirement:	<u>≤</u>	3		

Measured relative to Illuminate A.

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

**Refractive Power & Astigmatism** 

Cample ID	Left (m <sup>-1</sup> )		Right (m <sup>-1</sup> )		Pass	Fail
Sample ID	Refractive Power	Astigmatism	Refractive Power	Astigmatism	Pass	ган
3A-1	-0.03	0.03	-0.03	0.04	X	
Requirement:	+/- 0.06	≤ 0.06	+/- 0.06	≤ 0.06		

Tested in a simulated as worn position using a 19mm aperture.

**Resolving Power** 

Sample ID	Pattern Resolved (Yes/No)		Pass	E-1
Sample ID	Left	Right	Pass	Fail
3A-1	Yes	Yes	X	
Requirement:	Resolve Pattern 20			

Tested in a simulated as worn position using a 19mm aperture.

#### **Prism and Prism Imbalance**

Sample ID	Prismatic Power (cm/m)		Vertical	Horizontal	Pass	Fail
Sample ID	Left	Right	Imbalance(cm/m)	Imbalance(cm/m)	Pass	ran
3A-1	0.07	0.07	< 0.05	< 0.05	X	
Dagwinamantı	<i>2</i> (	. 50	< 0.25	Base Out $\leq 0.50$		
Requirement:	≥(	0.50	≤ 0.25	Base In $\leq 0.25$		





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### 5.2 Physical Requirements; Results: Pass

Protectors are free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use.

### **5.2.1 Drop Ball Impact Resistance**

Sample ID	Location	Pass	Fail
3A-3	Left	X	
3A-4	Right	X	
3A-5	Left	X	
3A-6	Right	X	

Protector shall fail if any of the following occur:

- lens (lens only) fractures
- piece fully detached from the inner surface
- projectile penetrates the inner surface
- lens not retained

### 5.2.2 Ignition; Results: Pass

Components tested (Lens, Hinge, Temple (Arm and Ear Arm)) did not ignite or continue to glow once the rod is removed.

### 5.2.4 Minimum Coverage Area; Result: Pass

The frames, lens housings or carriers and lens(es) cover in plain view an area of not less than 40 mm (1.57 in.) in width and 33 mm (1.30 in.) in height (elliptical) in front of each eye, centered on the pupil centers of test headform.

# Sample Photograph:





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- Client is responsible for procuring, at its cost, insurance protecting the value of its property, extending to provided samples.
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- 13. Certain work may be subcontracted to ICS-approved laboratories as required or applicable. Client will be notified of this in advance.
- 14. Client agrees to pay any and all additional costs associated with unexpected or above-standard communications and/or consultations with Client or third parties as designated by Client.
- 15. Client agrees to pay any and all additional costs for work additional to the original scope of work as agreed to by Client.
- 16. Client understands and agrees that ICS, in entering into this Contract and by performing services hereunder, does not assume, abridge, abrogate or undertake to discharge any duty or responsibility of Client to any other party or parties. No one other than Client shall have any right to rely on any Report or other representation or conduct of ICS and ICS disclaims any obligations of any nature whatsoever with respect to such third parties.
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- 18. Client agrees, in consideration of ICS undertaking to perform the test(s) hereunder, to protect, defend and indemnify ICS from any and all claims, damages, expenses either direct or consequential for injuries to persons or property arising out of or in consequence of the performance of the testing, inspection and reporting hereunder and/or the performance of the products tested or inspected hereunder, unless caused by the negligence of ICS.
- 19. It is agreed that if ICS should be found liable for any losses or damages attributable to the services hereunder in any respect, its liability shall not exceed the amount of the fee paid by Client for services rendered and Client's sole remedy at law or in equity shall be the right to recover that sum.
- 20. Quotations are valid for 30 days from date of issue. Standard Terms: 30% Laboratory/Testing fees invoiced and payable upon acceptance of quotation. 15 days net. Any change to these terms requires written approval by the President, Executive Vice President or Accounting Manager. ICS retains the right to require prepayment in full at any time. Cancelled jobs will be invoiced for work performed and/or setup costs incurred. Shipping costs incurred by ICS will be invoiced at cost +10% handling fee. A minimum USD \$25.00 handling fee will be invoiced on all sample returns. Shipping costs incurred by ICS will be invoiced \$25.00 or cost +10%, whichever amount is higher.
- 21. ICS hereby objects to any conflicting terms contained in any order, acceptance or other subsequent correspondence submitted by Client.
- 22. In the event that payment is not received within 15 days of invoice date, Client agrees to pay a late payment charge on the unpaid balance equal to 1-1/2% per month or the maximum charge allowed by law, whichever is less, and all costs and expenses, including attorney's fees where recovery of the same is not prohibited by law, incurred by ICS in collecting such invoices.
- documents, testimony in a court of law, or for any other purpose relating to work performed by ICS in connection with work performed for that Client, shall be paid by Client. Client shall also pay costs related to deposition and trial testimony.
- 24. Cancelled/discontinued orders: Client responsible for all administrative and testing charges up to point of cancellation.

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