

Issued to: Danyang Gute Safety Limited  
Yongan Industry Park, The North of  
Wuwei Road, Development Zone  
Danyang City, Jiangsu Province, 212300  
China

Date: 30 December 2020  
Report: T15599-01-1  
Issue: 1  
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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:**

3001 Spectacles

Lens	Quantity	Sample ID
Clear	6	9A

Date(s) submitted: 16 December 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: 17 through 21 December 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):**

ANSI/ISEA Z87.1-2020 Requirements	Compliant	Non-Compliant
5. Fundamental Design Requirements for All Protectors		
5.1 Optical Requirements		
5.1.1 Optical Quality	X	
5.1.2 Luminous Transmission	X	
5.1.3 Haze - Clear Lenses Only	X	
5.1.4 Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors	X	
5.1.5 Refractive Power, Astigmatism, Prism and Prism Imbalance for Prescription Protectors and Magnifiers		Not applicable
5.2 Physical Requirements	X	
5.2.1 Drop Ball Impact Resistance	X	
5.2.2 Ignition	X	
5.2.3 Corrosion Resistance of Metal Components		Not applicable
5.2.4 Minimum Coverage Area	X	
5.3 Markings		Excluded
5.4 Other Requirements		Not applicable
5.5 Replaceable Lenses		Not applicable
5.6 Aftermarket Components and Accessories		Not applicable

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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
9A-2	90.4	90.4	1.000	X	
Requirement:	≥ 85		N/A		

**5.1.3 Haze - Clear Lens Only**

Sample ID	Left (%)	Right (%)	Pass	Fail
9A-2	0.27	0.26	X	
Requirement:	≤ 3			

Measured relative to Illuminate A.

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

**Refractive Power & Astigmatism**

Sample ID	Left (m <sup>-1</sup> )		Right (m <sup>-1</sup> )		Pass	Fail
	Refractive Power	Astigmatism	Refractive Power	Astigmatism		
9A-1	-0.02	0.02	-0.03	0.03	X	
Requirement:	+/- 0.06		≤ 0.06			

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

**Resolving Power**

Sample ID	Pattern Resolved (Yes/No)		Pass	Fail
	Left	Right		
9A-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 Imbalance(cm/m)	Horizontal Imbalance(cm/m)	Pass	Fail
	Left	Right				
9A-1	0.18	0.20	<0.05	0.08 Base Out	X	
Requirement:	≤ 0.50		≤ 0.25	Base Out ≤ 0.50 Base In ≤ 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
9A-3	Left	X	
9A-4	Right	X	
9A-5	Left	X	
9A-6	Right	X	

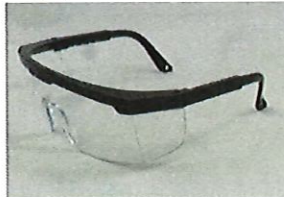
Protector shall fail if any of the following occur:

- 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, Frame Front, Temple Arm, Temple End Piece) 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:**





Test Report T15599-01-1 Issue 1  
ANSI/ISEA Z87.1-2020  
Danyang Gute Safety Limited  
3001 Spectacles  
30 December 2020



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