



Test Report T11128-01-1 Issue 1  
ANSI/ISEA Z87.1-2015  
Zhejiang Nicety Technology Co., Ltd.  
NTA-E  
15 September 2016



Approved by:

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China

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**Objective:**

Contract testing to ANSI/ISEA Z87.1-2015 “American National Standard for Occupational and Educational Personal Eye and Face Protection Devices”.

Clause(s): 5. General Requirements  
-excluding Markings  
6. Impact Protector Requirements

**Samples:**

NTA-E

Description	Quantity	Sample ID
Clear Lens w/Helmet	12	8A

Date(s) submitted: 06 September 2016

**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 Z87.1-2015 were followed unless noted in results.

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

**Assessment Summary:**

Date(s) tested: 13 through 14 September 2016

Samples as assessed meet the requirements of ANSI/ISEA Z87.1-2015 for Impact Rated Spectacle.

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**Assessment Summary-Continued:**

ANSI/ISEA Z87.1-2015 Requirements	Compliant	Non-Compliant
5. General Requirements		
5.1 Optical Requirements		
5.1.1 Optical Quality	X	
5.1.2 Luminous Transmission (Clear Lenses)	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		Not applicable
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		Not assessed
5.4 Other Requirements		Not applicable
5.5 Replaceable Lenses		Not applicable
5.6 Aftermarket Components and Accessories		Not applicable
6. Impact-Rated Protector Requirements		
6.1 General		
6.1.1 Protectors Marked for Impact Protection		
6.1.2 Frames and Shells		See 6.2.2 and 6.2.3
6.1.3 Lateral (Side) Coverage	X	
6.2 Impact Requirements		
6.2.1 Protector Acceptance Criteria		
6.2.2 High Mass Impact	X	
6.2.3 High Velocity Impact	X	
6.2.4 Penetration Test (Lens Only)	X	
6.2.5 Prescription Lens Material Qualification		Not applicable
6.2.6 Prescription Lens Mounting Qualification		Not applicable
6.2.7 Devices with Lift Fronts		Not applicable
7. Optical Radiation Protector Requirements		None claimed
8. Droplet and Splash, Dust, and Fine Dust Protector Requirements		Not applicable

Note: Product assessed as a Spectacle per Client request. The product type designation is not determined by ICS Laboratories nor is its alignment/conformity with the product type definitions within ANSI Z87.1 assessed by ICS Laboratories.

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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 their optical quality.

**5.1.2 Luminous Transmission (Clear Lenses)**

Sample ID	Left (%)	Right (%)	Left/Right	Pass	Fail
8A-2	91.2	91.1	1.001	X	
Requirement:	$100 \geq T_L \geq 85$		N/A		

**5.1.3 Haze - Clear Lens Only**

Sample ID	Left (%)	Right (%)	Pass	Fail
8A-2	0.23	0.36	X	
Requirement:	$\leq 3$			

Illuminate C used instead of Illuminate A.

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

**Refractive Power & Astigmatism**

Sample ID	Left ( $m^{-1}$ )		Right ( $m^{-1}$ )		Pass	Fail
	Refractive Power	Astigmatism	Refractive Power	Astigmatism		
8A-1	-0.04	0.01	-0.05	0.03	X	
Requirement:	+/- 0.06	$\leq 0.06$	+/- 0.06	$\leq 0.06$		

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

**Resolving Power**

Sample ID	Left	Right	Pass	Fail
8A-1	20	20	X	
Requirement:	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				
8A-1	0.10	0.26	<0.05	0.27 Base Out	X	
Requirements:	$\leq 0.50$		$\leq 0.25$	Base Out $\leq 0.50$ 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**

Protectors meeting the requirements of 6.2 are exempt from drop ball impact testing

**5.2.2 Ignition; Result: Pass**

(Lens, Helmet, Lens Mounting Hardware, Lens Swivel retainer, Chinstrap connectors, Headgear Adjuster, Headgear Adjuster Plate and Suspension) did not ignite or continue to glow once the rod was removed.

**5.2.4 Minimum Coverage Area; Result: Pass**

The frames, lens housings or carriers and lens(es) cover in plane 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 geometrical center of the lens.

**6.1.1 Protectors Marked for Impact Protection**

Protectors and replaceable components marked for impact protection in accordance with Table 3 shall meet applicable requirements of Section 6.

**6.1.3 Lateral (Side) Coverage; Result: Pass**

When mounted on the medium headform protectors provide continuous lateral coverage (i.e. no openings greater than 1.5mm (0.06 in.) in diameter) from the vertical plane of the lenses tangential to a point not less than 10 mm (0.394 in.) posterior to the corneal plane and not less than 10 mm (0.394 in.) in height above and not less than 10 mm (0.394 in.) in height below the horizontal plane centered on the eyes of the headform. The probe does not contact the headform within the defined coverage area.

**6.2.1 Protector Acceptance Criteria**

When each type test is conducted as indicated in Sections 6.2.2, 6.2.3 and 6.2.4 and, as applicable Section 6.2.6, a complete device shall fail if any of the following occurs:

- any part, fragment or material visible to the unaided eye becomes detached from the inner surface of any complete device, as determined by inspection of the device or of the contact paste;
- fracture;
- penetration of the inner surface either by the projectile passing completely through the lens, frame or housing component, or by rupture of the inner lens surface;
- lens not retained;
- for the high-velocity test, the unaided eye observes any piece adhering to the contact paste, or observes contact paste on the projectile or complete device.

In the case of plano protectors with a prescription lens carrier, contact of the prescription lens carrier with the headform does not constitute a failure.

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**6.2.2 High Mass Impact**

Sample ID	Location	Pass	Fail
8A-3	Right	X	
8A-4	Left	X	
8A-5	Right	X	
8A-6	Left	X	

**6.2.3 High Velocity Impact**

Sample ID	Location	Velocity (ft/sec)	Pass	Fail
8A-7	Right 0°	153	X	
8A-8	Right 30°	153	X	
8A-9	Right 90° ↑ 10mm	153	X	
8A-10	Left 0°	151	X	
8A-11	Left 30°	151	X	
8A-12	Left 90° ↓ 10mm	153	X	

**6.2.4 Penetration Test (Lenses Only)**

Sample ID	Location	Pass	Fail
8A-3	Left	X	
8A-4	Right	X	
8A-5	Left	X	
8A-6	Right	X	

**Sample Photographs:**



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16. 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.
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