



Test Report T9333-02-1 Issue 2
ANSI/ISEA Z87.1-2010
PDS International Pte Ltd
SWORKE Cobra Spectacles
01 August 2016



Approved by:

A handwritten signature in blue ink, appearing to read "Keith E. Whitten".

Keith E. Whitten
Laboratory Manager

Prepared by:

A handwritten signature in blue ink, appearing to read "Cathy Woloszyn".

Cathy Woloszyn
Lab Administrator

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Objective:

Contract testing to ANSI/ISEA Z87.1-2010 "American National Standard for Occupational and Educational Personal Eye and Face Protection Devices".

- Clause(s):
- 5. General Requirements
 - 6. Impact Protector Requirements
 - 7. Optical Radiation Protector Requirements
 - Ultraviolet Filters (Table 7)
 - Visible Light Filters (Table 9)
 - Special-Purpose Lenses (Table 10)

Samples:

SWORKE Cobra Spectacles

Description	Quantity	Sample ID
Clear Lens with Rx Carrier (no Rx Lenses)	20	3A-xx
	10	3A-2xx
Grey Polarized Lens with Rx Carrier (no Rx Lenses)	20	3B-xx
	10	3B-2xx
Clear Lens with Rx Carrier with +5.00D Rx Lens	6	3C-xx
	6	3C-2xx
Clear Lens with Rx Carrier with -5.00D Rx Lens	6	3D-xx
	6	3D-2xx

Date(s) submitted: 02 January 2015 and 24 June 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 Z87.1-2010 were followed unless noted in results.

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

As requested by client:

- Rx Carriers were removed from the samples with Rx Carriers (no Rx Lenses) 3A and 3B samples prior to testing.
- Samples with Rx Carriers (with +5.00/-5.00 Rx Lenses) were used for multiple impacts.

Assessment Summary:

Date(s) tested: 07 through 13 January 2015 and 26 through 27 July 2016

Samples as assessed meet the requirements of ANSI/ISEA Z87.1-2010 for Impact Rated Spectacles.

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Assessment Summary-Continued:

ANSI/ISEA Z87.1-2010 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	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	Not applicable	
5.2 Physical Requirements	X	
5.2.1 Drop Ball Impact Resistance	X	
5.2.2 Protector Acceptance Criteria		
5.2.3 Ignition	X	
5.2.4 Corrosion Resistance of Metal Components	Not applicable	
5.2.5 Minimum Coverage Area	X	
5.3 Minimum Lens Thickness	Not applicable	
5.4 Marking Requirements	X	
5.5 Other Requirements	Not applicable	
5.6 Replaceable Lenses	Not applicable	
5.7 Aftermarket Components	Not applicable	
6. Impact Protector Requirements		
6.1 General		
6.1.1 Impact Rated Protectors		
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	
6.3 Additional Impact Requirements for Specific Protector Types		
6.3.3 Prescription Lens Carriers Behind Plano Protectors		
-6.1.3 Lateral (Side) Coverage	X	
-6.2.2 High Mass Impact	X	
-6.2.3 High Velocity Impact	X	
7. Optical Radiation Protector Requirements		
7.1 Transmittance of Lenses		
7.1.1 Optional Transmittance Attributes (Markings)	See 5.4	
7.1.2 Clear and Filter Lenses	X	
7.1.3 Automatic Darkening Welding Filter Lenses	Not applicable	
7.1.4 Visible Light Filters	X	
7.1.5 Variation in Luminous Transmittance (Welding Filter)	Not applicable	
7.2 Transmittance of Housings	Not applicable	
8. Droplet and Splash, Dust, and Fine Dust Protector Requirements	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 their optical quality.

5.1.2 Luminous Transmission (Clear Lenses)

Sample ID	Left (%)	Right (%)	Left/Right	Pass	Fail
3A-2	88.5	88.6	0.999	X	
Requirement:	$100 \geq T_L \geq 85$		N/A		

5.1.3 Haze (Clear Lens Only)

Sample ID	Left (%)	Right (%)	Pass	Fail
3A-2	0.20	0.21	X	
Requirement:	≤ 3			

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			
Clear								
3A-210	0.01	-0.01	0.02	0.01	-0.03	0.04	X	
Grey Polarized								
3B-210	0.01	0.00	0.01	0.01	-0.02	0.03	X	
Requirement:	+/- 0.06		≤ 0.06	+/- 0.06		≤ 0.06		

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

Resolving Power

Sample ID	Left	Right	Pass	Fail
Clear				
3A-210	>20	>20	X	
Grey Polarized				
3B-210	>20	>20	X	
Requirement:	\geq Pattern 20			

Note: 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				
Clear						
3A-210	0.19	0.23	<0.05	0.34 Base Out	X	
Grey Polarized						
3B-210	0.17	0.23	<0.05	0.42 Base Out	X	
Requirement:	≤ 0.50		≤ 0.25	Base Out ≤ 0.50 Base In ≤ 0.25		

5.2 Physical Requirements; Pass

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

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5.2.1 Drop Ball Impact Resistance

Sample ID	Location	Pass	Fail
Clear			
3A-3	Left	X	
3A-4	Right	X	
3A-5	Left	X	
3A-6	Right	X	
Grey Polarized			
3B-2	Left	X	
3B-4	Right	X	
3B-5	Left	X	
3B-6	Right	X	

5.2.2 Protector Acceptance Criteria

When each type test is conducted as indicated above, a complete device shall fail if any of the following occurs:

- piece fully detached from the inner surface
- fracture
- penetration of the rear surface
- lens not retained

5.2.3 Ignition; Result: Pass

Samples (Temple, Nose Pad, Rx Carrier, Frames, Brow Guard and Lenses) did not ignite or continue to glow after removal of the steel rod.

5.2.5 Minimum Coverage Area; Result; Pass

The eye wire and lens cover an area greater than 40 mm (1.57 in.) in width and 33 mm (1.30 in.) in height (elliptical) centered on the geometrical center of the lens.

5.4 Marking Requirements (Samples 3A, 3B, 3C, & 3D-xx)

Component	Z87 Marking Present	Requirement	Pass	Fail
Front	S Z87 +	Front and at least One Temple: “Manufacturers Mark” Impact Rated Plano “Z87+”	X	
Left Temple	S Z87 +			
Right Temple	None			
Rx Carrier	S	“Manufacturers Mark” Per clause 6.3.3 “No other Z87 Mark”	X	
Clear Lenses (Left and Right)	S + U6	“Manufacturers Mark” Impact Rating “+”	X	
Grey Polarized (Left and Right)	S + U6 L3	Lens Type (if applicable): Ultraviolet Filter Scale “U#” Visible Light Filter Scale “L#”	X	

Markings shall be sequential.

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6.1.3 Lateral (Side) Coverage; Result: Pass

Protectors with and without Rx Carriers 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:

- piece fully detached from the inner surface
- fracture
- penetration of the rear 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.

6.2.2 High Mass Impact

Sample ID	Location	Pass	Fail
Clear			
3A-201	Right	X	
3A-202	Left	X	
3A-203	Right	X	
3A-204	Left	X	
Grey Polarized			
3B-201	Right	X	
3B-202	Left	X	
3B-203	Right	X	
3B-204	Left	X	

6.2.3 High Velocity Impact

Sample ID	Location	Velocity (ft/sec)	Pass	Fail
Clear				
3A-204	Right 0°	153.0	X	
3A-205	Right 30°	152.5	X	
3A-206	Right 90° ↑ 10mm	151.9	X	
3A-207	Left 0°	151.3	X	
3A-208	Left 30°	151.6	X	
3A-209	Left 90° ↓ 10mm	152.0	X	
Grey Polarized				
3B-204	Right 0°	151.3	X	
3B-205	Right 30°	152.6	X	
3B-206	Right 90° ↑ 10mm	152.0	X	
3B-207	Left 0°	151.4	X	
3B-208	Left 30°	152.0	X	
3B-209	Left 90° ↓ 10mm	151.8	X	

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6.2.4 Penetration Test (Lenses Only)

Sample ID	Location	Pass	Fail
Clear			
3A-17	Right	X	
3A-18	Left	X	
3A-19	Right	X	
3A-20	Left	X	
Grey Polarized			
3B-17	Right	X	
3B-18	Left	X	
3B-19	Right	X	
3B-20	Left	X	

6.3.3 Prescription Lens Carrier Behind Plano Protectors

Plano protectors designed to accept prescription lenses held by a prescription carrier behind the plano lenses shall be tested as a complete device, and shall meet the requirements of 6.1.3, 6.2.2 and 6.2.3, if the plano protector is impact-rated. Testing shall be done with prescription lenses in powers of -5.00D and +5.00D. Prescription lens carriers used behind plano protectors shall be marked with the manufacturer's mark or logo but shall not be marked with other Z87 markings.

-High Mass Impact

Sample ID	Location	Pass	Fail
+5.00			
3C-204	Right	X	
3C-201	Left	X	
3C-205	Right	X	
3C-203	Left	X	
-5.00			
3D-204	Right	X	
3D-205	Left	X	
3D-206	Right	X	
3D-207	Left	X	

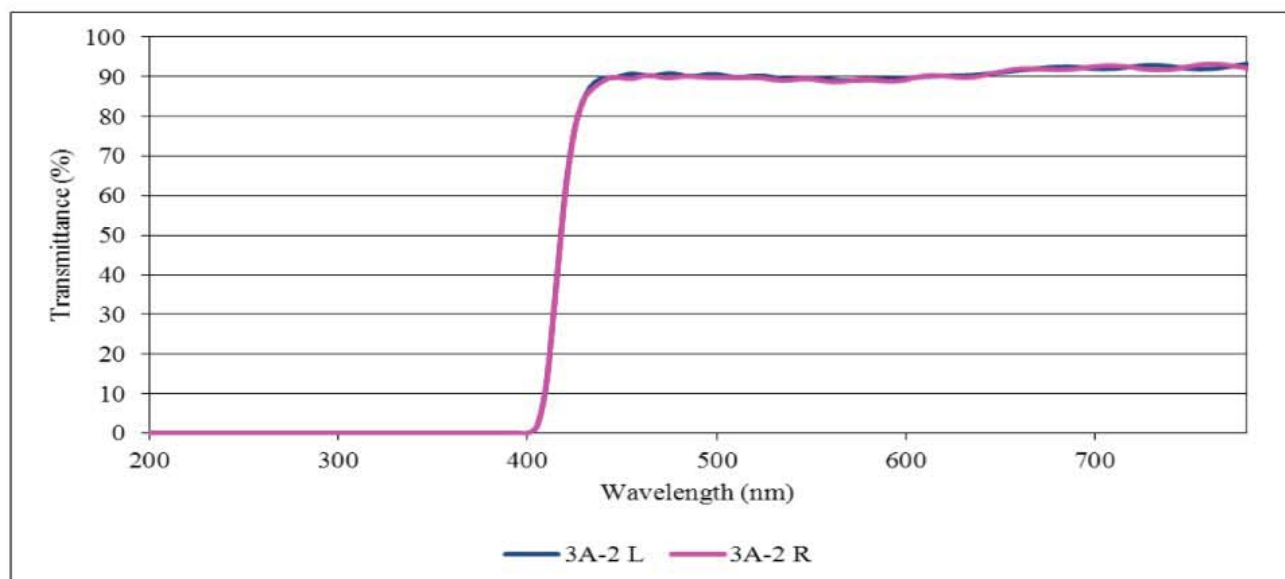
-High Velocity Impact

Sample ID	Location	Velocity (ft/sec)	Pass	Fail
+5.00				
3C-201	Right 0°	152.9	X	
3C-202	Right 30°	152.9	X	
3C-203	Right 90° ↑ 10mm	151.7	X	
3C-204	Left 0°	151.8	X	
3C-205	Left 30°	152.2	X	
3C-206	Left 90° ↓ 10mm	151.4	X	
-5.00				
3D-201	Right 0°	152.8	X	
3D-202	Right 30°	151.9	X	
3D-203	Right 90° ↑ 10mm	151.9	X	
3D-204	Left 0°	151.4	X	
3D-205	Left 30°	151.9	X	
3D-206	Left 90° ↓ 10mm	151.4	X	

7.1.2 Transmittance of Lenses; Clear and Filter Lenses- *Clear*

-Ultraviolet Filters (Table 7)

Sample:	3A-2L	3A-2R	Requirement (U6)	Pass	Fail
Far-Ultraviolet (200 to 315nm)	0.00011	0.00011	$\leq 0.01\%$	X	
Near-Ultraviolet (315 to 380nm)	0.00013	0.00013	$\leq 0.1\%$	X	



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7.1.2 Transmittance of Lenses; Clear and Filter Lenses – Grey Polarized

-Ultraviolet Filters (Table 7)

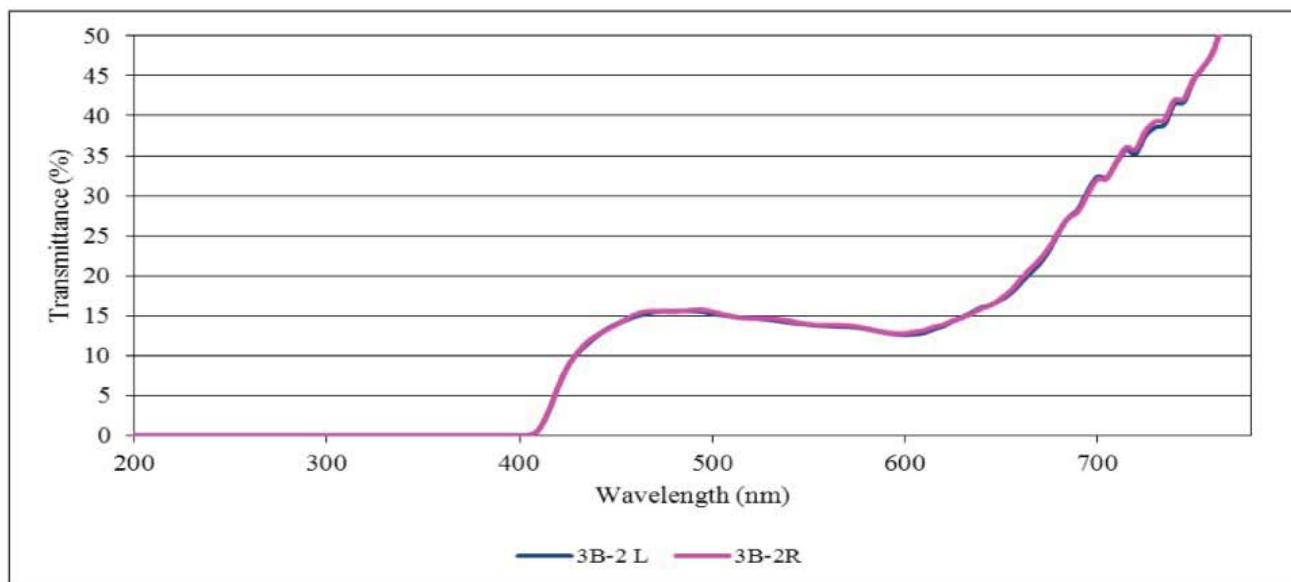
Sample:	3B-2L	3B-2R	Requirement (U6)	Pass	Fail
Far-Ultraviolet (200 to 315nm)	0.00002	0.00002	$\leq 0.01\%$	X	
Near-Ultraviolet (315 to 380nm)	0.00002	0.00002	$\leq 0.1\%$	X	

-Visible Light Filters (Table 9)

Sample:	3B-2L	3B-2R	Requirement (L3)	Pass	Fail
Luminous (T_L)-ILLA	14.0	14.2	8.5 to 18%	X	

-Special Purpose Lenses (Table 10)

Sample:	Left (%)	Right (%)	Left/Right	Pass	Fail
Luminous (T_L)-ILLA	13.7	13.8	0.987	X	
Requirement:	$85 > T_L \geq 8$		$1.10 \geq L/R \geq 0.90$		



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7.1.4 Visible Light Filters (ANSI Z80.3-2008) Transmittance Requirements – Grey Polarized

Sample ID:	3B-2L	3B-2R	Requirement (Medium to Dark)	Pass	Fail
4.6.1 Luminous Transmittance					
Luminous (Tv) - ILLC	14.1	14.2	8 to 40%	X	
4.6.2 Mean Transmittance					
UVB (280 to 315nm)	0.00002	0.00002	≤ 1%	X	
UVA (315 to 380nm)	0.00002	0.00002	≤ 0.5Tv	X	
4.6.3 Transmittance Properties Related to Traffic Signal Recognition					
4.6.3.1 Color Limits					
Yellow (x,y)	0.582, 0.416	0.583, 0.417	See ANSI Z80.3 Figure 1	X	
Green (x,y)	0.202, 0.406	0.202, 0.406		X	
D65 (x,y)	0.314, 0.339	0.314, 0.339		X	
4.6.3.2 Traffic Signal Transmittance					
Luminous (Tv) - ILLC	14.1	14.2	≥ 8%	X	
Red	16.4	16.5	≥ 8%	X	
Yellow	13.9	14.0	≥ 6%	X	
Green	14.3	14.4	≥ 6%	X	
4.6.3.3 Spectral Transmittance					
Min. 475 to 650nm	12.6	12.8	≥ 0.2Tv	X	
4.7.1 Polarizing Lens - Luminous (Tv) – ILLC					
Parallel	29.0	29.4			
Perpendicular	<0.1	<0.1			
Ratio	>290	>294	Type I > 20	X	

UVB and UVA limits are for High or Prolonged Exposure.

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Sample Photographs:



Clear



Grey Polarized



Clear with +5.00 Prescription Lens Carrier



Clear with -5.00 Prescription Lens Carrier

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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.
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