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Test Report T7724-01-1 Issue 1
ANSI/ISEA Z87.1-2010
ARGUL Y CIA.S.A.
Anteojos Argon Elite Spectacles
26 December 2012



Approved by:

A handwritten signature in blue ink, appearing to read "Keith E. Whitten", written over a horizontal line.

Keith E. Whitten
Laboratory Manager

Prepared by:

A handwritten signature in blue ink, appearing to read "Cathy Woloszyn", written over a horizontal line.

Cathy Woloszyn
Laboratory Assistant

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Issued to: ARGUL Y CIA.S.A.
Calle 21 N° (B1884EBW)
Berazategui,
Argentina

Date: 26 December 2012
Report: T7724-01-1
Issue: 1
Page: 1 of 9

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
-excluding Marking Requirements
6. Impact Protector Requirements
7. Optical Radiation Protector Requirements
-Special-Purpose Lenses (Table 10)

Samples:

Anteojos Argon Elite Spectacles

Lens Color	Frame Color	Quantity	Sample ID
Transparente	Blue	20	4A
Gris	Blue	6	4B
Amarillo	Blue	6	4C
Verde	Blue	6	4D
Outdoor/Indoor	Blue	20	4E
Naranja BL	Blue	6	4F

Dates submitted: 07 November 2012

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).

Assessment Summary:

Date tested: 03 through 06 December 2012

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

Issued to: ARGUL Y CIA.S.A.
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 Berazategui,
 Argentina

Date: 26 December 2012
 Report: T7724-01-1
 Issue: 1
 Page: 2 of 9

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	Not assessed	
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	Not applicable	
7. Optical Radiation Protector Requirements		
7.1 Transmittance of Lenses		
7.1.1 Optional Transmittance Attributes (Markings)	Not applicable	
7.1.2 Clear and Filter Lenses	X	
7.1.3 Automatic Darkening Welding Filter Lenses	Not applicable	
7.1.4 Visible Light Filters	Not claimed	
7.1.5 Variation in Luminous Transmittance (Welding Filters)	Not applicable	
7.2 Transmittance of Housings (Welding Protectors Only)	Not applicable	
8. Droplet and Splash, Dust, and Fine Dust Protector Requirements	Not applicable	

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 Berazategui,
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Date: 26 December 2012
 Report: T7724-01-1
 Issue: 1
 Page: 3 of 9

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
<i>Transparente</i>					
4A-2	90.6	90.7	0.999	X	
<i>Amarillo</i>					
4C-2	87.1	87.2	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
<i>Transparente</i>				
4A-2	0.37	0.36	X	
<i>Amarillo</i>				
4C-2	0.29	0.27	X	
Requirement:	≤ 3			

Illuminate C used instead of Illuminate A.

Issued to: ARGUL Y CIA.S.A.
 Calle 21 N° (B1884EBW)
 Berazategui,
 Argentina

Date: 26 December 2012
 Report: T7724-01-1
 Issue: 1
 Page: 4 of 9

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			
<i>Transparente</i>								
4A-1	0.05	0.03	0.02	0.04	0.03	0.01	X	
<i>Outdoor/Indoor</i>								
4E-1	0.05	0.03	0.02	0.05	0.03	0.02	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
<i>Transparente</i>				
4A-1	≥ 20	≥ 20	X	
<i>Outdoor/Indoor</i>				
4E-1	20	≥ 20	X	
Requirement:	≥ 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				
<i>Transparente</i>						
4A-1	0.09	<0.05	<0.05	0.09 Base In	X	
<i>Outdoor/Indoor</i>						
4E-1	0.08	0.09	<0.05	0.15 Base In	X	
Requirement:	≤ 0.50		≤ 0.25	Base Out ≤ 0.50 Base In ≤ 0.25		

Issued to: ARGUL Y CIA.S.A.
 Calle 21 N° (B1884EBW)
 Berazategui,
 Argentina

Date: 26 December 2012
 Report: T7724-01-1
 Issue: 1
 Page: 5 of 9

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
Transparente			
4A-3	Left	X	
4A-4	Right	X	
4A-5	Left	X	
4A-6	Right	X	
Outdoor/Indoor			
4E-3	Left	X	
4E-4	Right	X	
4E-5	Left	X	
4E-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 (Lenses, Front and Temple) 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 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 64mm (2.52 in.) PD.

Issued to: ARGUL Y CIA.S.A.
 Calle 21 N° (B1884EBW)
 Berazategui,
 Argentina

Date: 26 December 2012
 Report: T7724-01-1
 Issue: 1
 Page: 6 of 9

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:

- 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
Transparente			
7A-7	Right	X	
7A-8	Left	X	
7A-9	Right	X	
7A-10	Left	X	
Gris			
7B-3	Right	X	
7B-4	Left	X	
Amarillo			
7C-3	Right	X	
7C-4	Left	X	
Verde			
7D-3	Right	X	
7D-4	Left	X	
Outdoor/Indoor			
7E-7	Right	X	
7E-8	Left	X	
7E-9	Right	X	
7E-10	Left	X	
Naranja BL			
4F-3	Right	X	
4F-4	Left	X	

Issued to: ARGUL Y CIA.S.A.
 Calle 21 N° (B1884EBW)
 Berazategui,
 Argentina

Date: 26 December 2012
 Report: T7724-01-1
 Issue: 1
 Page: 7 of 9

6.2.3 High Velocity Impact

Sample ID	Location	Velocity (ft/sec)	Pass	Fail
Transparente				
4A-11	Right 0°	151	X	
4A-12	Right 30°	152	X	
4A-13	Right 90° ↑ 10mm	151	X	
4A-14	Left 0°	151	X	
4A-15	Left 30°	152	X	
4A-16	Left 90° ↓ 10mm	152	X	
Gris				
4B-5	Right 0°	153	X	
4B-6	Left 0°	152	X	
Amarillo				
4C-5	Right 0°	151	X	
4C-6	Left 0°	152	X	
Verde				
4D-5	Right 0°	150	X	
4D-6	Left 0°	150	X	
Outdoor/Indoor				
4E-11	Right 0°	153	X	
4E-12	Right 30°	153	X	
4E-13	Right 90° ↑ 10mm	153	X	
4E-14	Left 0°	153	X	
4E-15	Left 30°	153	X	
4E-16	Left 90° ↓ 10mm	152	X	
Naranja BL				
4F-5	Right 0°	152	X	
4F-6	Left 0°	151	X	

6.2.4 Penetration Test (Lenses Only)

Sample ID	Location	Pass	Fail
Transparente			
4A-17	Right	X	
4A-18	Left	X	
4A-19	Right	X	
4A-20	Left	X	
Outdoor/Indoor			
4E-17	Right	X	
4E-18	Left	X	
4E-19	Right	X	
4E-20	Left	X	

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Date: 26 December 2012
Report: T7724-01-1
Issue: 1
Page: 8 of 9

7.1.2 Transmittance of Lenses; Clear and Filter Lenses

-Special Purpose Lenses (Table 10)

Sample ID	Left (%)	Right (%)	Left/Right	Pass	Fail
<i>Gris</i>					
4B-2	22.6	22.7	0.996	X	
<i>Verde</i>					
4D-2	11.9	12.0	0.994	X	
<i>Outdoor/Indoor</i>					
4E-2	54.0	54.8	0.985	X	
<i>Naranja BL</i>					
4F-2	51.6	51.7	0.998	X	
Requirement:					
Tinted:	$85 > T_L \geq 8$		$1.10 \geq L/R \geq 0.90$		
Extra Dark:	$8 > T_L \geq 0.2$		$1.20 \geq L/R \geq 0.80$		

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Calle 21 N° (B1884EBW)
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Date: 26 December 2012
Report: T7724-01-1
Issue: 1
Page: 9 of 9

Sample Photographs:



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