

September 27, 2012

Vicsa Safety S.A. Casa Matriz Pintor Cicarelli 683-SAN JOAQUÍN SAN **CHILI** 

Intertek Test Report Number: G100766457CRT-110

Dear Claudio Martinez Muratsuka:

Intertek has completed the evaluation of your Spy Flex Safety Spectacles with Clear Lenses, manufactured by Vicsa Safety S.A. to the Rating of Z87+. The Safety Spectacles were evaluated to the requirements of American National Standard for Occupational and Educational Personal Eye and Face Protection Devices, ANSI/ISEA Z87.1-2010. The test samples were received on 8/16/12 in new condition. The evaluations were performed at Intertek in Cortland, NY on 9/18/12 through 9/26/12. The results of these tests are as indicated below.

Sample(s) provided for Evaluation:		
20 pairs of Safety Spectacles		

<u>Tests Completed:</u>	Test Date(s):	<u>Section</u>	Results
General Requirements (All Protectors)	9/18/12-9/26/12	5	PASS
Impact Protector Requirements (Z87+)	9/18/12-9/26/12	6	PASS
Droplet and Splash, Dust, and Fine Dust		0	
Protector Requirements	N/A	o	N/A

## NOTE: See Pages 3-7 for the representative data sheets for the product evaluated.

This test report concludes the work for your project outlined under Intertek Quote No: 500380131. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

Spin Ensign

Tested by: Reviewed by:

Erik Sprague Sara Ensign Associate Engineer Technician I

Performance Group Performance Group











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An independent organization testing for safety, performance, and certification.

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Client: Vicsa Safety SA Engineer: Erik Sprague

9/18/12-

Job No.: G100766457 Tested By: Erik Sprague Date: 9/26/12

Product: Spectacles Reviewed By: Sara Ensign Date: 9/27/12

Model No.: Spy Flex Standard: ANSI/ISEA Z87.1-2010

Description: Safety Spectacles with clear lenses

Sample Control Number: 2012-06-250592; 2012-08-253704; 2012-08-253705 TRANSCRIBED TEST DATA

Type:	Spectacle:	X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	X	Rx:	Photochromatic:	Tinted:	Clear: X	Non-Removable: X

Table of Contents:	able of Contents:										
Required: Page(s): Section:		Section:	Test Description:	Pass/Fail:							
(X)	1-7	N/A	Intertek Report No: G100766457CRT-110	N/A							
(X)	2	N/A	Table of Contents	N/A							
(X)	2	N/A	Equipment List	N/A							
(X)	3-5	5	General Requirements (all protectors)	PASS							
(X)	5-7	6	Impact Protector Requirements (Z87+)	PASS							

Equipment List:										
Used:	Equipment:	Manufacturer:	Model No.:	Control No.:	Cal. Due Date:					
(X)	Headform	Inspec	EN 168:2001 Medium Head (50 <sup>th</sup> percentile adult male)	N/A	N/A					
(X)	Headform	Inspec	"H" Head	NA	N/A					
(X)	6-inch scales	Fowler	52-389-006	N1273	4/23/13					
(X)	Gram Scale	Denver Inst	DI-4K	S132	11/11/12					
(X)	Calipers	Mitu	0-6"	N1217	5/30/13					
(X)	Tape Measure	Tape Measure Craftsman		N766	11/22/12					
(X)	Thermocouple / Meter / Rod	Newport	HHM290/N	M218	12/14/12					
(X)	Balance/Scale	Denver Instruments	MXX-612	S295	9/14/12					
(X)	High Mass Impactor (pointed projectile)	Intertek	Z87-2010 High Mass	J143	12/14/12					
(X)	Air Cannon	Basic Eng	HVIT	N740	8/3/13					
(X)	Ventilation Probe	Intertek	1.5mm x 125mm	J154	8/3/13					
(X)	Needle Penetrator	Intertek	Z87-2010 Penetrator	J174	N/A					
(X)	Drop Ball	Intertek	Z87-2010 Drop Ball	J147	2/10/13					

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Client:	Vicsa Safety SA	Engineer:	Erik Sprague		
T 1 N	G100766457	T ( 1 D	F 11 0	D.	9/18/12-
Job No.:	G100766457	Tested By:	Erik Sprague	Date:	9/26/12
Product:	Spectacles	Reviewed By:	Sara Ensign	Date:	9/27/12
Model No.:	Spy Flex	_ Standard:	ANSI/ISEA Z87.1-2010		
Description:	Safety Spectacles with clear lenses				

Sample Control Number: 2012-06-250592; 2012-08-253704; 2012-08-253705 TRANSCRIBED TEST DATA

Type:	Spectacle:	X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:		Removable:	
Style:	Plano:	X	Rx:	Photochromatic:	Tinted:	Clear:	X	Non-Removable:	X

# **Section 5, General Requirements (All Protectors)**

Section (Test)	Requirement			Results		Compliance	
5	General Requirements (A	Il Protectors)					
5.2	Physical Requirements:  Protectors shall be free from other defects which are likel injury during use.			Sample #	1 ects	PASS	
5.2.1 (9.6)	Drop Ball Impact Resistance The protector lenses shall no a steel ball. A complete devi following occurs; piece fully surface, fracture, penetration not retained  Drop  Weight, grams Diameter, mm (inch) Drop Height, cm (inch)	ot fracture when ice shall fail if a y detached fron	any of the n inner	Req'd:  Actual:  Sample 9.6: (1) (2) (3) (4)	Laboratory Condi Temperature Range 18-28 °( 65-82 °F) 71°  Impact eye Location Left Left Right Right	Humidity	PASS
5.2.2	Protector Criteria			See section	5.2.1		Info only
5.2.3 (9.7)	Ignition:  Protectors shall not ignite or rod is removed. Each extern (exclusive of textiles or elast	ally exposed m	aterial	Sample #:		tions:	PASS

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Non-Removable:

Client:	Vicsa Safety SA	Engineer:	Erik Sprague		
Job No.:	G100766457	Tested By:	Erik Sprague	Date:	9/18/12- 9/26/12
Product:	Spectacles	Reviewed By:	Sara Ensign	Date:	9/27/12
Model No.:	Spy Flex	Standard:	ANSI/ISEA Z87.1-2010		
Description:	Safety Spectacles with clear lenses	<u></u>			
Sample Contr	rol Number: <b>2012-06-250592</b> ; <b>2012-08-2</b>	53704; 2012-08-2	253705 TRANSC	RIBED TES	T DATA

Type: Spectacle: X Goggle: Faceshield: WH Lenses: FF Respirator: Removable:

Photochromatic:

Tinted:

Clear:

Style:

Plano:

X Rx:

Section (Test)	Requirement		Results				Compliance
5	General Requ	irements (All Protectors)	•				
5.2.4 (9.8)	resistant to the shall not be im	ents used in protectors shall be corrosion degree that the function of the protector paired by the corrosion. Lenses and onents are excluded from these  9/18/12 – 9/19/12 / 1pm  Brine solution: Boil for 15 minutes  Immerse in room temp solution  Dry for 24-hours at room temp  Rinse, air dry, evaluate	Actual:  Sample Metal Con Screve Screve	Range 1 (65-8 67-	erature 8-28 °C 32 °F) 73°	Humidity Range 35-65 % 58-63%  tion Impaired NO NO	PASS
5.2.5	Minimum Cover The eyewire and less than 40 mm height (elliptical) geometrical center Frames designed an area of not less (1.10 in.) in heig center of the lens Frames designed mm (2.13 in.) PL size, including ey x 1.10 in.). Fram be marked on the	Sample #: 1  Minimum Coverage  YES			PASS		
5.3	Minimum Lens The minimum be those indica	Sample #: 1 Type: (see table below) 6 Measured Lens Thickness (mm): 1.61			PASS		
5.4	specified locati Markings shall the standard. M shall be require the hazard or in manufacturer.	hall bear the permanent markings in ons as shown in Table 4a of the standard. follow the sequence shown in Table 4b of farking for lens type and use applications d only when claims for protection against dicated use are made by the	Sample  Meets requ of Table 4a	Marking VIC	gs on Sam ZZ87+U6	1 ple YES	PASS

for prescription protector use shall be marked for size in accordance with the system described in ANSI Z80.5-2004. Fronts shall be marked with the A-dimension (eye

size) and DBL.

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Client: Vicsa Safety SA Engineer: Erik Sprague 9/18/12-Job No.: G100766457 Tested By: Erik Sprague Date: 9/26/12 Product: Spectacles Reviewed By: Sara Ensign Date: 9/27/12 Model No.: Spy Flex Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with clear lenses

Sample Control Number: 2012-06-250592; 2012-08-253704; 2012-08-253705 TRANSCRIBED TEST DATA

Type	e: Spectacle:	X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:		Removable:	
Style	e: Plano:	X	Rx:	Photochromatic:	Tinted:	Clear:	X	Non-Removable:	X

Section (Test)	Requirement		Results	Compliance					
5	General Requirements (All Protect	ors)							
	Reference Table 4a of standard:								
		Lenses & Repl	acement Lenses		Complete Device				
	Type of Mark	Spectacles	All Other	Frame	(no replaceable parts)				
	All Protectors shall bear the marking	gs below:							
	Mfg Mark or Logo	Yes	Yes	Yes	Yes				
	Standard – Plano		Z87	Z87	Z87				
	Standard – Rx		Z87	Z87-2	Z87-2				
	Coverage (small head)	Н		Н					
	The following markings shall be req	uired only when o	claims are made:						
	Impact Mark –Impact rated Plano	+	Z87+	Z87+	Z87+				
	Impact Mark – Impact rated Rx	+	Z87+	Z87-2+	Z87-2+				
	Lens Type – Clear								
	Lens Type - Welding	W shade	W shade		W shade				
	Lens Type – UV Filter	U scale #	U scale #		U scale #				
	Lens Type – Visible Light Filter	L scale #	L scale #		L scale #				
	Lens Type – IR Filter	R scale #	R scale #		R scale #				
	Lens Type – Variable Tint	V	V		V				
	Special Purpose	S	S		S				
	Use- Splash / Droplet			D3	D3				
	Use – Dust			D4	D4				
	Use – Fine Dust			D5	D5				

# **Section 6, Impact Protector Requirements (Z87+)**

Section (Test)	Requirement	Results	Compliance						
6	Impact Protector Requirements (Z87+)								
6.1	General								
6.1.1	Impact Rated Protectors:	Information only							
	Shall meet the impact requirements and be marked per Tables 4a and 4b of the standard.								
6.1.2	Frames and Shells	Tested as a complete device 6.2.2 and 6.2.3	PASS						
6.1.3 (9.10)	Lateral (side) Coverage:  Impact rated protectors shall provide continuous lateral coverage (i.e. no openings greater than 1.5 mm (.06 in.) in diameter) from the edge of the lens 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.) above and not less than 10 mm (0.394 in.) below the horizontal plane centered on the eyes of the headform.	Sample #:  Location  0° Right (random)  10 mm above  90° Right 10mm above  90° Left 10mm above  0° Left (random)  10mm below  90° Right 10mm below  90° Left 10mm below	PASS						

Client: Vicsa Safety SA Engineer: Erik Sprague 9/18/12-Job No.: G100766457 Tested By: Erik Sprague Date: 9/26/12 Product: Spectacles Reviewed By: Sara Ensign Date: 9/27/12 Model No.: Spy Flex Standard: ANSI/ISEA Z87.1-2010 Safety Spectacles with clear lenses Description:

Sample Control Number: 2012-06-250592; 2012-08-253704; 2012-08-253705 TRANSCRIBED TEST DATA

Type	e: Spectacle:	X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:		Removable:	
Style	e: Plano:	X	Rx:	Photochromatic:	Tinted:	Clear:	X	Non-Removable:	X

Section (Test)	Requirement		Results				Compliance		
6	Impact Protector Requirements (Z87+)								
6.2	Impact Requirements								
6.2.1	Protector Acceptance			See sections 6.2.2, 6.2.3, 6.2.4, 6.2.6				Info only	
6.2.2 (9.11)	High Mass Impact: The complete device	shall be capable	of resisting an		I -1	Conditions:			
	Impact from a pointe  A complete device sh piece fully detached penetration of the real Impact Weight, (grams)	d projectile.  nall fail if any of from inner surfar surface, lens noter-Pointed Pro  Requir 500	the following occurs; ce, fracture, ot retained.	Req	Cd: Tempe Range 1 (65-8 al: 7)  le Impact Locatio Left Left	erature F8-28 °C 2 °F) 3	tration, etc NO NO	PASS	
6.2.3	Drop Height, cm (in	•	)") 50"	(3)	Right Right		NO NO		
(9.12)	The complete device from a 6.35 mm (0.2) the velocity specified contact with the eye result of the impact.  A complete device shapiece fully detached	5 in) diameter st l in Table 5 (see of the headform hall fail if any of	eel ball traveling at Appendix A). No is permitted as a the following occurs;	Laboratory Conditions:   Req'd:					
	penetration of the rea high-velocity test, the	r surface, lens n e unaided eye ob ct paste, or obse	ot retained. For the	#	Impact Location	Impact Velocity (ft/s)	Contact w/ eye		
	and programme or com-			(1)	0° Rt. Eye	152.9	NO	PASS	
	**Complete APPI	ENDIX A pric	or to testing **	(2)	30° Rt. Eye	153.0	NO		
		Steel Ball		(3)	*90° Rt. Eye (above)	151.8	NO		
	Diameter, mm	Required 6.35	Actual 6.34	(4)	0° Lt. Eye	153.0	NO		
	Weight, grams	1.06	1.01	(5)	30° Lt. Eye	152.9	NO		
				(6)	*90° Lt. Eye (below)	152.7	NO		

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Client: Vicsa Safety SA Engineer: Erik Sprague 9/18/12-Job No.: G100766457 Tested By: Erik Sprague Date: 9/26/12 Product: Spectacles Reviewed By: Sara Ensign Date: 9/27/12 Model No.: Spy Flex Standard: ANSI/ISEA Z87.1-2010 Safety Spectacles with clear lenses Description:

Sample Control Number: 2012-06-250592; 2012-08-253704; 2012-08-253705 TRANSCRIBED TEST DATA

Type:	Spectacle:	X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	X	Rx:	Photochromatic:	Tinted:	Clear: X	Non-Removable:

Section (Test)	Requirement	Results	Compliance					
6	Impact Protector Requirements (Z87+)							
6.2.4 (9.13)	Penetration Test (lenses only):  Lenses for all complete devises shall be capable of resisting penetration by a weighted needle.  A complete device shall fail if any of the following occurs; piece fully detached from inner surface, fracture, penetration of the rear surface, lens not retained.  Needle Penetrator  Required Actual Weight, grams 44.2 43.95 Drop Height, cm (inch) 127 (50") 50"	Laboratory Conditions:   Req'd:   Temperature   Humidity     Range 18-28 °C   Range     (65-82 °F)   35-65 %     Actual:   71°   49%      Sample   Impact eye   Penetration     9.13:   Location     (1)   Left   NO     (2)   Left   NO     (3)   Right   NO     (4)   Right   NO	PASS					
6.2.5 (9.14)	Prescription Lens Material Qualification	Not this type	NA					
6.2.6 (9.11)	Prescription Lens Mounting Qualification  A complete device shall fail if any of the following occurs; piece fully detached from inner surface, fracture, penetration of the rear surface, lens not retained.	Not this type	NA					