

September 27, 2012

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

Intertek Test Report Number: G100766457CRT-109

#### Dear Claudio Martinez Muratsuka:

Intertek has completed the evaluation of your Spy Flex Safety Spectacles with Amber 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.

Tested by: Reviewed by:

Erik Sprague Sara Ensign Associate Engineer Technician I

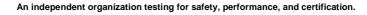
Performance Group Performance Group











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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 amber lenses

Ty	pe:	Spectacle:	X	Goggle:	Faceshield:	WH Lenses:		FF Respirator:	Removable:	
Sty	le:	Plano:	X	Rx:	Photochromatic:	Tinted:	X	Clear:	Non-Removable:	X

Table of Contents:	able of Contents:								
Required:	equired: Page(s): Section:		Test Description:	Pass/Fail:					
(X)	1-7	N/A	Intertek Report No: G100766457CRT-109	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					

Equipmen	nt 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	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	Craftsman	939392	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 Z87-20		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		
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 amber lenses	<u></u>			

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:	X	Clear:	Non-Removable:	X

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

Section (Test)	Requirement			Results			Compliance
5	General Requirements (A	All Protectors)	)				
5.2	Physical Requirements:  Protectors shall be free from other defects which are like injury during use.	n projections, sh	harp edges or	Sample #	1 Cects	PASS	
5.2.1 (9.6)	Drop Ball Impact Resistance:  The protector lenses shall not fracture when impacted by a steel ball. A complete device shall fail if any of the following occurs; piece fully detached from inner surface, fracture, penetration of the rear surface, or lens not retained    Drop-Ball						PASS
5.2.2	Protector Criteria			See section	Info only		
5.2.3 (9.7)	Ignition:  Protectors shall not ignite or rod is removed. Each extern (exclusive of textiles or elas	ally exposed m	naterial	Sample #:		Humidity	PASS

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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 amber lenses	<del>-</del>			

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

Section (Test)	Requirement	,	Results		Compliance
5	General Requ	irements (All Protectors)			
5.2.4 (9.8)	Corrosion Resistance:  Metal components used in protectors shall be corrosion resistant to the degree that the function of the protector shall not be impaired by the corrosion. Lenses and electrical components are excluded from these requirements.  Date/Time: 9/18/12 - 9/19/12 / 1pm  9/18/12 Brine solution:  9/18/12 Boil for 15 minutes  9/18/12 Immerse in room temp solution  9/18/12 Dry for 24-hours at room temp  9/19/12 Rinse, air dry, evaluate		Req'd:  Actual:  Sample Metal Com Screw Screw	ponents Function Impaired NO	PASS
5.2.5	less than 40 mm (height (elliptical) geometrical center Frames designed an area of not less (1.10 in.) in height center of the lens Frames designed mm (2.13 in.) PD size, including ey x 1.10 in.). Frames	lens shall cover in plain view an area of not (1.57 in.) in width and 33 mm 1.30 in.) in in front of each eye, centered on the er of the lens. for small head sizes shall cover in plain view is than 34 mm (1.34 in.) in width and 28 mm int (elliptical), centered on the geometrical	Samp	PASS	
5.3	Minimum Lens The minimum I be those indicate	ens thickness for specified protector shall		table below) 6 Lens Thickness (mm): 1.65	PASS
5.4	specified locati Markings shall the standard. M shall be require the hazard or in manufacturer. In addition, the for prescription accordance with	hall bear the permanent markings in ons as shown in Table 4a of the standard. follow the sequence shown in Table 4b of arking for lens type and use applications d only when claims for protection against dicated use are made by the  components of frames that are intended protector use shall be marked for size in the system described in ANSI Z80.5-all be marked with the A-dimension (eye	Sample  Meets requi of Table 4a	PASS	

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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 amber 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:	X	Clear:	Non-Removable:	X

Section (Test)	Requirement		Results				
5	General Requirements (All Protect	ors)					
	Reference Table 4a of standard:						
	Type of Mark	Lenses & Repla Spectacles	All Other	Frame	Complete Device (no replaceable parts)		
	All Protectors shall bear the marking	gs below:	•	•			
	Mfg Mark or Logo	Yes	Yes	Yes	Yes Z87 Z87-2		
	Standard – Plano		Z87	Z87			
	Standard – Rx		Z87	Z87-2			
	Coverage (small head)	Н		H			
	The following markings shall be req	uired only when c	laims 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 # L scale #			
	71	Lens Type – Visible Light Filter 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	Coverage YES YES YES YES YES YES YES YES	PASS						

Client: Vicsa Safety SA Engineer: Erik Sprague 9/18/12-G100766457 Job No.: 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 amber lenses Description:

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

Section	Requirement			Re	esults	<b>S</b>			Compliance
(Test)	_								_
6	Impact Protector Requirement	nts (Z87+)							
6.2	Impact Requirements								
6.2.1		a		Se	e sect	ions 6.2.2, 6.2.	3, 6.2.4, 6.2	.6	Info only
						,			ĺ
6.2.3 (9.12)	Protector Acceptance Criteri High Mass Impact:  The complete device shall be impact from a pointed project.  A complete device shall fail piece fully detached from impenetration of the rear surface.  Impactor- Point Weight, (grams) Drop Height, cm (inch)  High Velocity Impact:  The complete device shall be from a 6.35 mm (0.25 in) dia the velocity specified in Tab contact with the eye of the heresult of the impact.  A complete device shall fail piece fully detached from impenetration of the rear surface high-velocity test, the unaide adhering to the contact paste the projectile or complete device shall fail piece fully detached from impenetration of the rear surface high-velocity test, the unaide adhering to the contact paste the projectile or complete device shall fail piece fully detached from impenetration of the rear surface high-velocity test, the unaide adhering to the contact paste the projectile or complete device shall fail piece fully detached from impenetration of the rear surface high-velocity test, the unaide adhering to the contact paste the projectile or complete device shall fail piece fully detached from impenetration of the rear surface high-velocity test, the unaide adhering to the contact paste the projectile or complete device shall fail piece fully detached from impenetration of the rear surface high-velocity test, the unaide adhering to the contact paste the projectile or complete device shall fail piece fully detached from impenetration of the rear surface high-velocity test, the unaide adhering to the contact paste full fail piece	e capable of rectile.  if any of the finer surface, frace, lens not ret  Required  500  127 (50")  e capable of resumeter steel based form is per  if any of the finer surface, frace, lens not ret  ed eye observed, or observes of vice.  KA prior to	collowing occurs; acture, ained.  e Actual 502 50"  esisting impact all traveling at endix A). No rmitted as a collowing occurs; acture, ained. For the es any piece contact paste on		Req', Actua Sample Req' (1) (2) (3) (4) (5) (6)	Range 1 (65-8 al: 71  le Impact of Location Left Right Right Right  Laboratory d: Tempe Range 1 (65-8 al: 70  e#: 9.12  Impact Location  0° Rt. Eye  30° Rt. Eye (above)  0° Lt. Eye  *90° Lt. Eye  *90° Lt. Eye	Conditions: rature   1 8-28 °C   2 °F)	Humidity Range 35-65 % 49%  etture, etration, etc NO NO NO NO	PASS PASS
				*1	0 mm	(below)  above or below			

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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 amber lenses Description:

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

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:	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