

December 20, 2012

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

Intertek Test Report Number: G100775972CRT-108

Dear Vicsa Staff:

Intertek has completed the evaluation of your X5 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 between 10/4/12 through 10/24/12. 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>	<u>Results</u>
General Requirements (All Protectors)	10/4/12-10/24/12	5	PASS
Impact Protector Requirements (Z87+)	10/4/12-10/24/12	6	PASS

## NOTE: See Pages 3-8 for the representative data sheets for the product evaluated.

This test report concludes the work for your project outlined under Intertek Quote No: 500384587. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

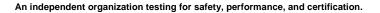
Spin Ensign

Tested by: Reviewed by:

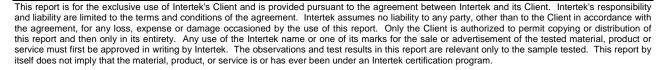
Erik Sprague Sara Ensign

Associate Engineer Associate Engineer Performance Group Performance Group











TRANSCRIBED TEST DATA

Client: Vicsa Safety SA Engineer: Erik Sprague 10/4/12 -Job No.: G100775972 Tested By: Erik Sprague Date: 10/24/12 Product: Reviewed By: Sara Ensign Spectacles Date: 12/1/12 Model No.: X5 Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with clear lenses

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

Sample Control Number: 2012-07-251817

Table of Contents:				
Required:	Page(s):	Section:	Test Description:	Pass/Fail:
(X)	1-8	N/A	Intertek Report No: G100775972CRT-108	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)	6-8	6	Impact Protector Requirements (Z87+)	PASS

Equipme	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	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	Ohaus	Precision Standard	S115	2/17/13
(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

Client:	Vicsa Safety SA		Engineer:	Erik Sprague				
Job No.:	G100775972		Tested By:	Erik Sprague	Date:	10/4/12 - 10/24/12		
Product:	Spectacles		Reviewed By:	Sara Ensign	Date:	12/1/12		
Model No.:	X5		Standard:	ANSI/ISEA Z87.1-2010				
Description:	Safety Spectacles wit	h clear lenses						
Sample Contr	rol Number: 2012-0	7-251817		TRAN	SCRIBED TE	ST DATA		
Type: Spec	tacle: Y Goggle:	Faceshield:	WH Lansas:	FF Respirator:	Pemovable:			

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	ll Protectors)					
5.2	Physical Requirements:  Protectors shall be free from other defects which are likel injury during use.			Sample #	1 Fects	PASS	
5.2.1 (9.6)	Drop Ball Impact Resistance The protector lenses shall not 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 ce shall fail if a detached from	any of the	Req'd:  Req'd:  Actual:  Sample 9.6: (1) (2) (3) (4)	Laboratory Cond Temperature Range 18-28 ° (65-82 °F) 69  Impact eye Location Left Left Right Right	Humidity	PASS
522	Dustastan Cuitania			Can santian	5 2 1		Info only
5.2.2 5.2.3 (9.7)	Protector Criteria Ignition: Protectors shall not ignite or rod is removed. Each extern (exclusive of textiles or elast	ally exposed m	aterial	See section  Sample #:  Req'd:  Actual:  Type Lens Frame Temple Foam		Humidity	Info only PASS

Client: Vicsa Safety SA Engineer: Erik Sprague 10/4/12 -Job No.: G100775972 Tested By: Erik Sprague Date: 10/24/12 Product: Reviewed By: Sara Ensign Spectacles Date: 12/1/12 Model No.: X5 Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with clear lenses Sample Control Number: 2012-07-251817 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 (Test)	Requiremen	t		Results				Compliance
5	General Requ	irements (All Protectors)						
5.2.4 (9.8)	Corrosion Res							
	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 conents are excluded from these  10/4/12 – 10/5/12 @ 10am  Brine solution:  Boil for 15 minutes  Immerse in room temp solution  Dry for 24-hours at room temp  Rinse, air dry, evaluate		Laboratory Conditions:  Req'd: Temperature Range 18-28 °C Range (65-82 °F) 35-65 %  Actual: 67-71 63-65   Sample #: 2  Metal Components Function Impaired Screw 1 NO  Screw 2 NO			ge % 5	PASS
5.2.5	less than 40 mm height (elliptical geometrical cent Frames designed an area of not le: (1.10 in.) in heig center of the len Frames designed mm (2.13 in.) Pl size, including e x 1.10 in.). Fram	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.  I for small head sizes shall cover in plain views than 34 mm (1.34 in.) in width and 28 mm (th (elliptical), centered on the geometrical	ew m 54 e	Sample #: 1  Minimum Coverage  YES				PASS
5.3		s Thickness:  lens thickness for specified protector sluted in Table 3.	hall	Sample #: Type: (see to Measured Lo			2 N/A	
		Table 3 Minimum I	Lens T	Thickness				
	No.	Protector		Minim	um Thic	kness		
		ectacle, Plano		.0 mm (0.12 in.			1	
		ectacle, Plano, Impact Rated		Minimum Thic		•	4	
		ectacle, Prescription		.0 mm (0.12 i□			4	PASS
	4 Sp	ectacle, Prescription, Impact Rated		.0 mm (0.08 in.			-	
	5 Go	oggles		.0 mm (0.12 in. .27 mm (0.05 i		glass		
	6 Go	oggles, Impact Rated		Minimum Thic	1			
		ceshield		.0 mm (0.04 in.		•	1	
	8 Fa	ceshield, Impact Rated		☐ Minimum Th		Requirement	1	
	9 W	elding Helmets		Minimum Thic				

Client: Vicsa Safety SA Engineer: Erik Sprague 10/4/12 -Job No.: G100775972 Tested By: Erik Sprague Date: 10/24/12 Product: Reviewed By: Sara Ensign 12/1/12 Spectacles Date: Model No.: X5 Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with clear lenses Sample Control Number: 2012-07-251817 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 (Test)	Requirement		Results			Compliance
5	General Requirements (All Protect	tors)	1			
5.4	Marking Requirements:					
	All protectors shall bear the permanen specified locations as shown in Table Markings shall follow the sequence sh the standard. Marking for lens type and shall be required only when claims for the hazard or indicated use are made be manufacturer.  In addition, the components of frames for prescription protector use shall be accordance with the system described 2004. Fronts shall be marked with the size) and DBL.	4a of the standard. own in Table 4b of d use applications r protection against y the that are intended marked for size in in ANSI Z80.5-	Sample #  Meets require of Table 4a	1 n Sample +U6L YES		
	Defense Table 4s of standards					
	Reference Table 4a of standard:  Type of Mark	Lenses & Repla Spectacles	All Other	Frame	Complete Device (no replaceable parts)	PASS
	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	quired 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 #	
	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	

Client: Vicsa Safety SA Engineer: Erik Sprague 10/4/12 -Job No.: G100775972 Tested By: Erik Sprague Date: 10/24/12 Product: Reviewed By: Sara Ensign Spectacles Date: 12/1/12 Model No.: X5 Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with clear lenses Sample Control Number: 2012-07-251817 TRANSCRIBED TEST DATA

Type:	Spectacle:	X	Goggle:	Faceshield:	WH Lenses:	FF Respirator: Removable		emovable:	
Style:	Plano:	X	Rx:	Photochromatic:	Tinted:	Clear:	X No	on-Removable:	X

## 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	
6.1.2	Shall meet the impact requirements and be marked per Tables 4a and 4b of the standard.  Frames and Shells	Tested as a complete device, see test sections	
0.1.2		6.2.2 and 6.2.3	
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.) diameter) from the edge of the lens to a point not less th. 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 m (0.394 in.) below the horizontal plane centered on the ey of the headform.	10 mm above YES  90° Right 10mm above YES  90° Left 10mm above YES	PASS
6.2 6.2.1 <b>6.2.2</b>	Impact Requirements Protector Acceptance Criteria High Mass Impact:	See sections 6.2.2, 6.2.3, 6.2.4, 6.2.6	Info only
(9.11)	The complete device shall be capable of resisting an impact from a pointed projectile.  A complete device shall fail if any of the following occupiece fully detached from inner surface, fracture, penetration of the rear surface, lens not retained.  Impactor- Pointed Projectile  Required Actual  Weight, (grams) 500 502  Drop Height, cm (inch) 127 (50") 50"	Laboratory Conditions:   Req'd: Temperature Range 18-28 °C Range (65-82 °F) 35-65 %     Actual: 69 44	PASS

Client: Vicsa Safety SA Engineer: Erik Sprague 10/4/12 -Erik Sprague Job No.: G100775972 Tested By: Date: 10/24/12 Product: Reviewed By: Sara Ensign 12/1/12 Spectacles Date: Model No.: X5 Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with clear lenses Sample Control Number: 2012-07-251817 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	Requirement			Results						Compliance	
(Test)											
6	Impact Protector Requirements (Z87+)										
6.2.3 (9.12)	High Velocity Impact:  The complete device shall be capable of resisting impact from a 6.35 mm (0.25 in) diameter steel ball traveling at the velocity specified in Table 5 (see Appendix A). No contact with the eye of the headform is permitted as a result of the impact.  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. 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.  **Complete APPENDIX A prior to testing **  Steel Ball  Required   Actual  Diameter, mm   6.35   6.34  Weight, grams   1.06   1.01					Laboratory Conditions:   Cd:			PASS		
6.2.4 (9.13)	Penetration Test (lense Lenses for all complete resisting penetration by A complete device shapiece fully detached for penetration of the rear Now Weight, grams  Drop Height, cm (in	te devises shall be by a weighted new all fail if any of the rom inner surface surface, lens not be edle Penetrator Required 44.2	he following occurs; e, fracture, t retained.  Actual 43.95	S 9 (1) (2) (3)	Actu amp .13: 1) 2)	Lal		Condition rature 8-28 °C 2 °F)	ne of the eyes.  Is: Humidity Range 35-65 % 44  Tenetration NO NO NO NO NO		PASS

X

X Non-Removable:

Client:	Vicsa Safety SA		Engineer:	Erik Sprague					
Job No.:	G100775	972		Tested By:	Erik S	Sprague	Date:	10/4/12 - 10/24/12	
Product:	Spectacle	Spectacles		Reviewed By:	ed By: Sara Ensign Date:			12/1/12	
Model No.:	X5	X5			ANSI/ISEA Z87.1-2010				
Description	Description: Safety Spectacles with clear lenses		_						
Sample Cor	ntrol Numbe	r: <b>2012-07-</b>	251817			TRANS	SCRIBED TE	ST DATA	
		I ~ 1	I =				T		
Type: Sp	ectacle: X	Goggle:	Faceshield:	WH Lenses:		FF Respirator:	Removable:		

Tinted:

Clear:

Photochromatic:

Style: Plano:

X Rx:

Section	Requirement	Results	Compliance
(Test)			
6	Impact Protector Requirements (Z87+)		
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