

October 26, 2012

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

Intertek Test Report Number: G100789754CRT-114

Dear Vicsa Staff:

Intertek has completed the evaluation of your Raptor Safety Spectacles with Grey 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 7/23/12 in new condition. The evaluations were performed at Intertek in Cortland, NY on 10/4/12 through 10/9/12. The results of these tests are as indicated below.

e(s) provided for Evaluation:		
rs of Safety Spectacles		

Tests Completed:	Test Date(s):	<u>Section</u>	<u>Results</u>
General Requirements (All Protectors)	10/4/12-10/9/12	5	PASS
Impact Protector Requirements (Z87+)	10/4/12-10/9/12	6	PASS
Droplet and Splash, Dust, and Fine Dust		8	N/A
Protector Requirements	N/A		

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: 500386937. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

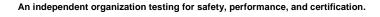
Tested by:

Reviewed by:

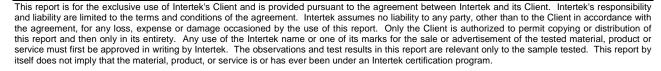
Erik Sprague Associate Engineer Performance Group

GA Apy

Jason Allen Technical Advisor Performance Group









Client: Vicsa Safety SA Engineer: Erik Sprague 10/04/12-Tested By: Job No.: G100789754 Erik Sprague Date: 10/09/12 Product: Reviewed By: Sara Ensign 10/17/12 Spectacles Date: Model No.: Raptor Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with grey lenses Sample Control Number: 2012-07-252206 TRANSCRIBED TEST DATA

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

Table of Contents:				
Required:	Page(s):	Section:	Test Description:	Pass/Fail:
(X)	1-8	N/A	Intertek Report No: G100789754CRT-114	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

^{*}For Table 7 and Table 9 see Report No. 100789754CRT-006

Equipme	nt List:				
Used:	Equipment:	Manufacturer:	Model No.:	Control No.:	Cal. Due Date:
(X)	Headform	Inspec	EN 168:2001 Medium Head (50 th 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.:	G100789754	Tested By:	Erik Sprague	Date:	10/04/12- 10/09/12		
Product:	Spectacles	Reviewed By:	Sara Ensign	Date:	10/17/12		
Model No.:	Raptor	Standard:	ANSI/ISEA Z87.1-2010				
Description:	Safety Spectacles with grey lenses						
Sample Contr	ol Number: 2012-07-252206		TRA	NSCRIBED TES	T DATA		
Type: Spec	tacle: X Goggle: Faceshield	: WH Lenses:	FF Respirator:	Removable:			

Style: Plano: X Rx: Photochromatic: Tinted: X Clear: Non-Removable: X	Type:	Spectacle:	X	Goggle:	Faceshield:	WH Lenses:		FF Respirator:	Removable:	
	Style:	Plano:	X		Photochromatic:	Tinted:	X	Clear:	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 fects	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 ce shall fail if a detached from	any of the n inner	Req'd: Req'd:	PASS		
522	Duotoston Cuitorio			Can sastion	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 elas	ally exposed m	aterial	See section Sample #: Req'd: Actual: Type Lens Frame Temple		Humidity	Info only PASS

X

Client:	Vicsa Safety SA	Engineer:	Erik Sprague		
Job No.:	G100789754	Tested By:	Erik Sprague	Date:	10/04/12- 10/09/12
Product:	Spectacles	Reviewed By:	Sara Ensign	Date:	10/17/12
Model No.:	Raptor	Standard:	ANSI/ISEA Z87.1-2010		
Description:	Safety Spectacles with grey lenses		,		
Sample Contr	rol Number: 2012-07-252206		TRANSC	RIBED TES	T DATA

WH Lenses:

Tinted:

FF Respirator:

Clear:

X

Removable:

Non-Removable:

Type:

Style:

Spectacle:

Plano:

X

Goggle:

Rx:

Faceshield:

Photochromatic:

Section (Test)	Requirement			Results					Compliance
5	General Requirer	nents (All Protectors)							
5.2.4 (9.8)	Metal components resistant to the degral shall not be impaired electrical componer requirements. Date/Time: 10 10/4/12 B 10/4/12 B 10/4/12 In 10/4/12 D 10/5/12 D 10/5/12 R		Req'd: Actual: Sampl Metal Com Screv Screv	ponents v 1	erature 8-28 °C 2 °F) 71	Humidi Range 35-65 % 63-65 2 ion Impai NO	%	PASS	
5.2.5	Minimum Coverage The eyewire and lens less than 40 mm (1.57) height (elliptical) in fi geometrical center of Frames designed for s an area of not less tha (1.10 in.) in height (el center of the lens. Frames designed for s mm (2.13 in.) PD hea size, including eyewir x 1.10 in.). Frames the	34	Sample #: 1 Minimum Coverage YES					PASS	
5.3	Minimum Lens Thi The minimum lens be those indicated i		Sample #: 1 Type: (see table below) 6 Measured Lens Thickness (mm): 1.71 Thickness						
	2 Spec □ a 3 Spectac 4 Spectac 5 Goggle	Protector cle, Plano acle, Plano, Impact Rated cle, Prescription cle, Prescription, Impact Rated s s, Impact □ated	No ≥3. ≥2. ≥3. ≥1.	Minimum Thickness ≥ 3.0 mm (0.12 in.) No Minimum Thickness Requireme \Box t ≥ 3.0 mm (0.12 in.) ≥ 2.0 mm (0.08 in.) ≥ 3.0 mm (0.12 in.) Glass ≥ 1.27 mm (0.05 in.), Non-glass No Minimum Thickness Requirement					PASS
	7 Faceshi 8 Faceshi		≥ 1. No	.0 mm (0.04 in Minimum The Minimum The	n.) ickness Re	quiremen	t		

Client:	Vicsa Safety SA	Engineer:	Erik Sprague			
					10/04/12-	
Job No.:	G100789754	Tested By:	Erik Sprague	Date:	10/09/12	
Product:	Spectacles	Reviewed By:	Sara Ensign	Date:	10/17/12	
Model No.:	Raptor	Standard:	ANSI/ISEA Z87.1-2010			
Description:	Safety Spectacles with grey lenses					
Sample Contr	rol Number: 2012-07-252206		TRANSCRIBED TEST DAT			

Type: Sp	ectacle:	X	Goggle:	Faceshield:	WH L	enses:	FF Respira	itor:	Removable:	
Style: Pl	ano:	X	Rx:	Photochromatic:	Tinted	: X	Clear:		Non-Removable:	X
Section (Test)	Requi	rem	ent			Results			C	compliance
5	Gener	al R	equirements	(All Protectors)						
5.4	Markir	g Re	quirements:							
	All protectors shall bear the permanent markings in specified locations as shown in Table 4a of the standard. Markings shall follow the sequence shown in Table 4b of the standard. Marking for lens type and use applications shall be required only when claims for protection against the hazard or indicated use are made by the				le 4b of cations	Sampl	1			
		manufacturer.					uirements la or 4b:	ES		
	for pre	scrip ance	tion protector with the syste	nts of frames that are int use shall be marked for em described in ANSI Za ked with the A-dimension	size in 30.5-					

2004. Fronts shall be marked with the size) and DBL.					
Reference Table 4a of standard:					
	Lenses & Repl	acement Lenses		Complete Device	
Type of Mark	Spectacles	All Other	Frame	(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	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	

Client: Vicsa Safety SA Engineer: Erik Sprague 10/04/12-Job No.: G100789754 Tested By: Erik Sprague Date: 10/09/12 Product: Reviewed By: Sara Ensign 10/17/12 Spectacles Date: Model No.: Raptor Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with grey lenses Sample Control Number: 2012-07-252206 TRANSCRIBED TEST DATA

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

Section 6, Impact Protector Requirements (Z87+)

Section (Test)	Requirement Results					
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.) 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	Sample #: 2 Location Coverage 0° Right (random) YES				
	less than 10 mm (0.394 in.) above and not less than 10 mm	90° Right 10mm above YES				
	(0.394 in.) below the horizontal plane centered on the eyes	90° Left 10mm above YES	PASS			
	of the headform.	0° Left (random) 10mm below YES				
		90° Right 10mm below YES				
		90° Left 10mm below YES				
6.2	Impact Requirements Protector Acceptance Criteria	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 impact from a pointed projectile. 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. Impactor- Pointed Projectile Required Actual Weight, (grams) 500 502 Drop Height, cm (inch) 127 (50") 50"	Laboratory Conditions: Req'd: Temperature Humidity Range 18-28 °C Range (65-82 °F) 35-65 % Actual: 68 60 Sample Impact eye Fracture, 9.11: Location penetration, etc (1) Left NO (2) Left NO (3) Right NO (4) Right NO	PASS			

Client: Vicsa Safety SA Engineer: Erik Sprague 10/04/12-Tested By: Job No.: G100789754 Erik Sprague Date: 10/09/12 Product: Reviewed By: Sara Ensign 10/17/12 Spectacles Date: Model No.: Raptor Standard: ANSI/ISEA Z87.1-2010 Description: Safety Spectacles with grey lenses Sample Control Number: 2012-07-252206 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	Requirement			Result	Compliance				
(Test)	Immed Dustacton Dequinaments (7071)								
6 6.2.3 (9.12)	Impact Protector Requ High Velocity Impact: The complete device si from a 6.35 mm (0.25 the velocity specified i contact with the eye of result of the impact. A complete device sha piece fully detached fr penetration of the rear high-velocity test, the adhering to the contact the projectile or comple **Complete APPE Diameter, mm Weight, grams	hall be capable in) diameter ste in Table 5 (see A the headform is all fail if any of the inner surface surface, lens no unaided eye obst paste, or obsertet device.	of resisting impact el ball traveling at Appendix A). No sepermitted as a he following occurs; e, fracture, tretained. For the erves any piece wes contact paste on	Rec Actu Samp	'd: le #: 0° 30' * (0° 30' *	Tempe Range 1 (65-8 69 9.12 Impact ocation Rt. Eye Rt. Eye 90° Rt. Eye above) Lt. Eye 100° Lt. Eye 100° Lt. Eye	8-28 °C 2 °F)	Contact w/ eye NO NO NO NO NO	PASS
6.2.4 (9.13)	Penetration Test (lense Lenses for all complete resisting penetration by A complete device sha piece fully detached frepenetration of the rear New Weight, grams Drop Height, cm (incomplete Drop Height, cm (incomplete device) Proposed Pro	e devises shall by a weighted new all fail if any of to minner surface surface, lens no eledle Penetrator Required 44.2	he following occurs; e, fracture, t retained. Actual 43.95	*10 mi Rec Actu Samp 9.13: (1) (2) (3) (4)	n abo		Conditions rature 1 8-28 °C 2 °F) 8	e of the eyes. Humidity Range 35-65 % 53 netration NO NO NO NO	PASS

X

Non-Removable:

Vicsa Sa	fety SA		Engineer:	Erik Sprague		
G100789	754		Tested By:	Erik Sprague	Date:	10/04/12- 10/09/12
Spectacle	es		_ Reviewed By:	Sara Ensign	Date:	10/17/12
Raptor			Standard:	ANSI/ISEA Z87.1-2010		
Safety Sp	ectacles with	grey lenses	<u></u>			
rol Number	r: 2012-07	-252206		TRAN	NSCRIBED TES	T DATA
tacle: X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:	
	G100789 Spectacle Raptor Safety Sp	Safety Spectacles with rol Number: 2012-07	G100789754 Spectacles Raptor Safety Spectacles with grey lenses rol Number: 2012-07-252206	G100789754 Tested By: Spectacles Reviewed By: Safety Spectacles with grey lenses rol Number: 2012-07-252206	G100789754 Tested By: Erik Sprague Spectacles Reviewed By: Sara Ensign Raptor Standard: ANSI/ISEA Z87.1-2010 Safety Spectacles with grey lenses rol Number: 2012-07-252206 TRAM	G100789754 Tested By: Erik Sprague Date: Spectacles Reviewed By: Sara Ensign Date: Raptor Standard: ANSI/ISEA Z87.1-2010 Safety Spectacles with grey lenses rol Number: 2012-07-252206 TRANSCRIBED TES

Tinted:

X Clear:

Photochromatic:

Style: Plano:

X Rx:

Section (Test)	Requirement	Results	Compliance
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