

## **TEST REPORT:**

Report of Testing of  
Goggle Model New Win

### **REPORT TO:**

Vicsa Safety S.A.  
Pintor Cicarelli No. 679  
San Joaquin, Santiago  
Chile

### **ATTENTION:**

Mr. Rafael Cvjetkovic M.

### **REPORT DATE:**

August 30, 2011

**REPORT TO:** Vicsa Safety S.A.  
Pintor Cicarelli No. 679  
San Joaquin, Santiago  
Chile

**PROJECT:** Report of Testing of  
Goggle Model  
New Win

**ATTENTION:** Mr. Rafael Cvjetkovic M. **PSI PROJECT NO.:** 0823112

**DATE:** August 30, 2011 **PSI LAB NO.:** SPT-10136-004

Professional Service Industries, Inc. (PSI) has performed testing on the referenced project. The results of our tests are presented in the accompanying report.

On August 25, 2011, Professional Service Industries, Inc. (PSI) received twenty-five (25) Goggles, identified as, Model New Win, from Vicsa Safety S.A. On August 29, 2011, PSI tested these Goggles in general accordance with the ANSI Z87.1-2010 specification.


**Goggle Description:** The Vicsa Model New Win Goggle is an impact-rated indirect vented Goggle with a removable tinted UV/visible filter plano lens.


Our services for this project were performed in accordance with PSI Proposal No. 823-1041, Rev. B dated January 3, 2011. The proposal included a proposed scope of services, estimated costs, unit rates, and PSI's General Conditions. Authorization to perform this project was in the form of signed acceptance of the aforementioned proposal, acknowledged January 21, 2011.

The results contained in this report are related only to the item(s) tested. The pages of this report (including attachments) shall not be reproduced, except in full, without written approval of PSI. All testing was conducted by and under the continuous, direct supervision of Professional Service Industries, Inc.

**Final Conclusion:** The Vicsa Safety S.A. Model New Win Goggle **Does Comply** with the ANSI Z87.1-2010 specification for the parameters tested.

Respectfully submitted,  
Professional Service Industries, Inc.

  
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Lab Technician, Special Test

  
Daniel E. John  
Manager, Special Test/Electrical



REPORT OF GOGGLE TESTING - GENERAL REQUIREMENTS

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1-2010 Requirement	Test Results	Acceptance
Optical Quality	5.1.1/9.1.2	Lens	Free of visible defects	Acceptable	Pass
Haze	5.1.3/9.3.2	Lens	3% max.	N/A	N/A
Refractive Power	5.1.4/9.4.3	Lens	± 0.06D	0.059 D	Pass
Astigmatism	5.1.4/9.4.3	Lens	≤0.06D max.	0.050 D	Pass
Resolving Power	5.1.4/9.4.3	Lens	Pattern 20 min.	Pattern 20	Pass
Prismatic Power	5.1.4/9.5.3	Lens	≤0.25 Δ	0.125 Δ	Pass
Vertical Prism Imbalance	5.1.4/9.5.3	Lens	≤0.125 Δ	0.063 Δ	Pass
Horizontal Prism Imbalance	5.1.4/9.5.3	Lens	≤0.125 Δ Base In ≤0.50 Δ Base Out	0.063 Δ Base In	Pass
Drop ball impact	5.2.1/9.6.2		No fracture	Acceptable	Pass
Ignition	5.2.3/9.7.3		Shall not ignite or continue to glow	Acceptable	Pass
Corrosion resistance	5.2.4/9.8.3		Function not impaired	Acceptable	Pass
Minimum Coverage Area	5.2.5	Left, Right	40 mm min. width, 33 mm min. height	Acceptable	Pass
Minimum lens thickness	5.3		No minimum requirement for impact rated Goggles	-----	-----
Marking	5.4/Table 4A	Frame = Vicsa Z87+ Lens = Vicsa Z87+ U6 L3	Manufacturer and specification compliance	Acceptable	Pass
Indirect Ventilation	5.5.1.1/5.5.1.2		No straight line penetration from the exterior to the interior exists	Acceptable	Pass



**REPORT OF GOGGLE TESTING  
 IMPACT PROTECTOR REQUIREMENTS**

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1-2010 Requirement	Test Results	Acceptance
Lateral Coverage	6.1.3/9.10.3		Continuous lateral coverage from the vertical plane/10 mm posterior/high/low	Acceptable	Pass
High mass impact	6.2.2/9.11.3	Left 1	No piece fully detached from inner surface, no penetration of rear surface, lens retained.	Acceptable	Pass
		Left 2		Acceptable	Pass
		Right 1		Acceptable	Pass
		Right 2		Acceptable	Pass
High velocity impact	6.2.3/9.12.3	Left 90°	No piece fully detached from inner surface, no penetration of rear surface, lens retained. No contact paste on projectile or device.	Acceptable	Pass
		30°		Acceptable	Pass
		90° 10 mm high		Acceptable	Pass
		Right 90°		Acceptable	Pass
		30°		Acceptable	Pass
		90° 10 mm low		Acceptable	Pass
Penetration	6.2.4/9.13.3		No fracture, no penetration of rear surface, lens retained	Acceptable	Pass



REPORT OF GOGGLE TESTING  
 OPTIONAL TRANSMITTANCE ATTRIBUTES

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1-2010 Requirement	Test Results	Acceptance
Transmittance, UV Filter					
Far UV (EFUV)	Table 7	Shade = U6	0.01 % maximum	0.01 %	Pass
Near UV (NUV)	Table 7	Shade = U6	0.1% maximum	0.007 %	Pass
Transmittance, Visible Filter	Table 9	Shade = L3	18% ≥ 8.5%	18 %	Pass

