

TEST REPORT:

Report of Goggle Testing of
Model K2

REPORT TO:

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

ATTENTION:

Mr. Rafael Cvjetkovic M.

REPORT DATE:

May 20, 2011

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

PROJECT: Report of Goggle
Testing of Model K2

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

DATE: May 20, 2011 **PSI LAB NO.:** SPT-10079-34

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

On May 13, 2011, Professional Service Industries, Inc. (PSI) received twenty-five (25) goggles, identified as, Model K2, from Vicsa Safety S.A. On May 19, 2011, PSI tested these goggles in general accordance with the ANSI Z87.1-2010 specification.

Goggle Description: The Vicsa Model K2 Goggle is an impact-rated goggle with a removable one-piece shaded UV and visible light filter plano lens, elastic headband and direct vented frame.

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 K2 **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



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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		Free of visible defects	Acceptable	Pass
Haze (clear only)	5.1.3/9.3.2		3% max	-----	-----
Refractive Power	5.1.4/9.4.3		± 0.06 D	0.058 D	Pass
Astigmatism	5.1.4/9.4.3		≤0.060 D	0.050 D	Pass
Resolving Power	5.1.4/9.4.3		Pattern 20 min.	Acceptable	Pass
Prismatic power	5.1.4/9.5.3		≤0.25 Δ	0.125 Δ	Pass
Vertical Prism Imbalance	5.1.4/9.5.3		≤0.125 Δ	0.063 Δ	Pass
Horizontal Prism Imbalance	5.1.4/9.5.3		≤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	All Lenses	40 mm minimum width, 33 mm minimum height	Acceptable	Pass
Marking	5.4/Tables 4A & 4B	Frame Marking = Vicsa Z87+ Lens Marking = Vicsa Z87 +U6L3	Manufacturer and specification compliance	Acceptable	Pass
Direct Ventilation	5.5.1.1		Exclude spherical objects 1.5 mm	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	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 SPECTACLE TESTING
 OPTIONAL TRANSMITTANCE ATTRIBUTES**

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1-2010 Requirement	Test Results	Acceptance
Transmittance UV Filter	7.1.2/9.2.2				
Far UV (EFUV)	Table 7	Shade = U6	0.01% maximum	0.01 %	Pass
Near UV Filter (NUV)	Table 7	Shade = U6	0.1% maximum	0.007 %	Pass
Transmittance, Visible Filter	Table 9	Shade = L3	18% ≥ 8.5%	18 %	Pass



K2