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# TEST REPORT:

Report of Goggle Testing of
Model Everest

**REPORT TO:**

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

**ATTENTION:**

Mr. Rafael Cvjetkovic M.

**REPORT DATE:**

June 9, 2011

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|---|---|---|---|
| **REPORT TO:** | Vicsa Safety S.A.<br>Pintor Cicarelli No. 679<br>San Joaquin, Santiago<br>Chile | **PROJECT:** | Report of Goggle Testing of Model Everest |
| **ATTENTION:** | Mr. Rafael Cvjetkovic M. | **PSI PROJECT NO.:** | 0823112 |
| **DATE:** | June 9, 2011 | **PSI LAB NO.:** | SPT-10069-18, Rev. A |

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

On April 27, 2011, Professional Service Industries, Inc. (PSI) received twenty-five (25) goggles, identified as, Model Everest, from Vicsa Safety S.A. On April 28, 2011, PSI tested these goggles in general accordance with the ANSI Z87.1-2010 specification.

Upon initial testing the Google Model Everest was found was found to comply with the ANSI Z87.1-2010 specification with the exception of markings. On June 6, 2011, Professional Service Industries, Inc. (PSI) received one (1) additional goggle, identified as, Model Everest, from Vicsa Safety S.A. This goggle was found identical to those previously submitted with the exception of revised markings. On June 6, 2011, PSI verified the markings on this goggle.

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 Everest **Does Comply** with the ANSI Z87.1-2010 specification for the parameters evaluated and contained in this report.

**Respectfully submitted,**
***Professional Service Industries, Inc.***

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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 | Complete Device | Free of visible defects | Acceptable | Pass |
| Haze | 5.1.3/9.3.2 | | (Clear Lens Only) | ---------- | ---------- |
| Refractive Power | 5.1.4/9.4.3 | Complete Device | ± 0.06D | 0.056 D | Pass |
| Astigmatism | 5.1.4/9.4.3 | Complete Device | ≤0.06D max. | 0.050 D | Pass |
| Resolving Power | 5.1.4/9.4.3 | Complete Device | Pattern 20 min. | Pattern 24 | Pass |
| Prismatic power | 5.1.4/9.5.3 | Complete Device | ≤0.25 Δ | 0.125 Δ | Pass |
| Vertical Prism Imbalance | 5.1.4/9.5.3 | Complete Device | ≤0.125 Δ | 0.063 Δ | Pass |
| Horizontal Prism Imbalance | 5.1.4/9.5.3 | Complete Device | ≤0.125 Δ Base In<br>≤0.50 Δ Base Out | 0.125 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+<br>Lens Marking = Vicsa Z87+ U6 L3 | Manufacturer and specification compliance | Acceptable | Pass |
| Direct Ventilation | 5.5.1.1 | | Spherical objects 1.5 mm excluded | N/A | ---------- |
| Indirect Ventilation | 5.5.1.2 | | No direct straight-line passage from exterior to interior | 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 |
| Transmittance, UV Filter | 7.1.2/9.2.2 | Lens | | | |
| Far UV (EFUV) | | Shade = U6 | 0.01% maximum | 0.01 % | Pass |
| Near UV (NUV) | | Shade = U6 | 0.1% maximum | 0.007 % | Pass |
| Visible Filter | | Shade = L3 | 18% ≥ 8.5% | 18 % | Pass |


Everest