

## **TEST REPORT:**

Report of Goggle Testing of  
Model WORKSafe ASTRONIX

### **REPORT TO:**

PDS International Pte Ltd.  
10 Pandan Crescent#05-03/04  
UE Techpark  
128466  
Singapore

### **ATTENTION:**

Mr. Stuart Seah

### **REPORT DATE:**

January 4, 2007

**REPORT TO:** PDS International Pte. Ltd. **PROJECT:** Report of Goggle  
10 Pandan Crescent#05-03/04 Testing  
UE Techpark  
128466  
Singapore

**ATTENTION:** Mr. Stuart Seah **PSI PROJECT NO.:** 823-66004

**DATE:** January 4, 2007 **PSI LAB NO.:** ELC-60354-18

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

On December 22, 2006, Professional Service Industries, Inc. (PSI) received twenty-five (25) goggles, identified as, WORKSafe ASTRONIX Goggle, from PDS International Pte. Ltd. On January 4, 2007, PSI tested these goggles in general accordance with ANSI Z87.1-2003.

Our services for this project were performed in accordance with PSI Proposal No. 823-5050, Rev. A, dated February 1, 2006. 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 February 2, 2006.

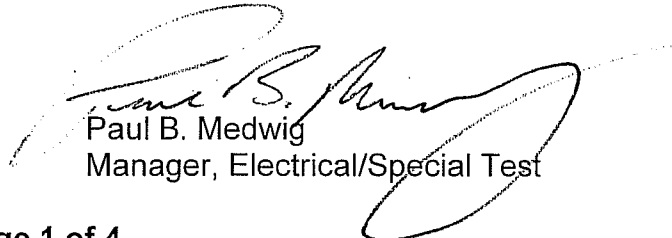
**PSI has not conducted flammability testing per ANSI Z87.1-2003, Paragraph 8.6. Conformance of the product to the standard is contingent upon documentation of the compliance of resins to ASTM D635-97.**

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 PDS International Pte. Ltd. Model WORKSafe ASTRONIX Does Comply with the ANSI Z87.1 specification with the exception of Paragraph 8.6.

Respectfully submitted,  
Professional Service Industries, Inc.

  
David J. Sienerth  
Lab Technician, Special Test

  
Paul B. Medwig  
Manager, Electrical/Special Test



Report To: PDS International Pte. Ltd.  
 Project No. 823-66004  
 Laboratory No. ELC-60354-18

Sample ID: Model WORKSafe ASTRONIX  
 Report Date: January 4, 2007  
 Page 2 of 4

REPORT OF GOGGLE TESTING

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1 Requirement	Test Results	Acceptance
High velocity impact	8.3.1.2	LEFT: 15° nasal	No orbital contact or hazardous ejections	Acceptable	Pass
		0°		Acceptable	
		15° temporal		Acceptable	
		30°		Acceptable	
		45°		Acceptable	
		60°		Acceptable	
		75°		Acceptable	
		90°		Acceptable	
		90° 10 mm high		Acceptable	
		90° 10 mm low		Acceptable	
		RIGHT: 15° nasal		Acceptable	
		0°		Acceptable	
		15° temporal		Acceptable	
		30°		Acceptable	
		45°		Acceptable	
		60°		Acceptable	
		75°	Acceptable		
		90°	Acceptable		
		90° 10 mm high	Acceptable		
		90° 10 mm low	Acceptable		



Report To: PDS International Pte. Ltd.  
 Project No. 823-66004  
 Laboratory No. ELC-60354-18

Sample ID: Model WORKSafe ASTRONIX  
 Report Date: January 4, 2007  
 Page 3 of 4

REPORT OF GOGGLE TESTING

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1 Requirement	Test Results	Acceptance
High mass impact	8.3.1.1	Left 1 Left 2	No hazardous ejections	Acceptable	Pass
		Right 1 Right 2		Acceptable	
Penetration	8.3.1.3		No fracture, no penetration	Acceptable	Pass
Prismatic power	8.4.2		1/4 Δ max	0.20 Δ	Pass
Vertical prism imbalance	8.4.2		1/8 Δ max	0.05 Δ	Pass
Horizontal prism imbalance	8.4.2		1/8 Δ max base in, 1/2 Δ max base out	0.30 Δ Base out	Pass
Refractive power	8.4.3		± 1/16 d. max	0.05 d.	Pass
Astigmatism	8.4.3		1/16 d. max	0.04 d.	Pass
Resolving Power	8.4.4		Pattern 20 min	Pattern 20	Pass
Haze	8.4.5		3% max	0.26 %	Pass



Report To: PDS International Pte. Ltd.  
Project No. 823-66004  
Laboratory No. ELC-60354-18

Sample ID: Model WORKSafe ASTRONIX  
Report Date: January 4, 2007  
Page 4 of 4

### REPORT OF GOGGLE TESTING

Test/Property	ANSI Z87.1 Paragraph	Location	ANSI Z87.1 Requirement	Test Results	Acceptance
Transmittance	8.5.2				
Visible		Left		90.8 %	
		Right		91.3 %	
		L/R ratio	0.90-1.10	0.99	Pass
Flammability	8.6			*	*
Corrosion resistance	8.7		Function not impaired	Acceptable	Pass
Cleanability	8.8		Function not impaired	Acceptable	Pass
Ventilation	8.9.1	Body	No direct passage (or) 1.5 mm sphere excluded	No direct passage	Pass
Marking	8.12.1	Frame	Manufacturer and compliance	Acceptable	Pass
	8.12.2	Lens	Manufacturer, shade and specification compliance	Acceptable	Pass

\* Acceptance is contingent upon receipt of certificate of compliance to ASTM D635-97 from the resin manufacturer.