

3/7/2014

Sabastian Barriga
Vicsa Safety
Casa Matriz
Pintor Cicarelli
683-San Joaquin, Chile

Intertek Test Report Number: G101529224CRT-002

Dear Sabastian:

Intertek has completed the evaluation of your eyewear model Turbine Gris AF, manufactured by Vicsa Safety to the Rating of Z87+. The eyewear was 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 2/12/14 in new condition. The evaluations were performed at Intertek in Cortland, NY on 2/14/14 through 2/28/14. The results of these tests are as indicated below.

Sample(s) provided for Evaluation: Turbine Gris AF

<u>Tests Completed:</u>	<u>Test Date(s):</u>	<u>Section</u>	<u>Results</u>
General Requirements (All Protectors)	2/28/14	5	PASS
Impact Protector Requirements (Z87+)	2/14/14	6	PASS
Droplet and Splash, Dust, and Fine Dust Protector Requirements	2/28/14	8	PASS

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: 500498525. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

Tested by:



Andrew Rulison
Technician 1
Performance Group

Reviewed by:



Chad Morey
Engineer
Performance Group

An independent organization testing for safety, performance, and certification.

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Intertek, Inc.

3933 US Route 11, Cortland, NY 13045 USA
Telephone: +1 607-753-6711 Fax: +1 607-756-9891 Web: www.intertek.com



INTERTEK TEST DATA SHEETS

Client:	<u>Vicsa Safety</u>	Engineer:	<u>Chad Morey</u>
Job No.:	<u>G101529224</u>	Tested By:	<u>Andrew Rulison</u> Date: <u>3/7/14</u>
Product:	<u>Spectacle</u>	Reviewed By:	<u>Chad Morey</u> Date: <u>3/7/14</u>
Model No.:	<u>Turbine Gris AF</u>	Standard:	<u>ANSI/ISEA Z87.1-2010</u>

Sample Control
Number:

CRT1402071156-001

TRANSCRIBED TEST DATA

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

Table of Contents:			
Required:	Page(s):	Section:	Test Description:
(X)	8	N/A	Intertek Report No: G101529224CRT-002
(X)	1	N/A	Table of Contents
(X)	1	N/A	Equipment List

Equipment 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	Gram Scale	Ohaus	Adventurer	S253	1/24/15
X	Calipers	Mitu	0-6"	N895	4/30/14
X	Tape Measure	Lufkin	233ME	R179	4/17/14
X	Thermocouple / Meter / Rod	Omega	OM	T-288053	8/28/14
X	Stopwatch	FS	14-649-55	N1363	4/3/14
X	High Mass Impactor (pointed projectile)	Intertek	Z87-2010 High Mass	J143	3/13/14
X	Air Cannon	Basic Eng	HVIT	N740	8/27/14
X	Needle Penetrator	Intertek	Z87-2010 Penetrator	J148	CAT3
X	Drop Ball	Intertek	Z87-2010 Drop Ball	J147	3/1/14
X	Hazemeter	Gardner	XL211	N328	Per Use
X	100 ft Goniometer	NA	NA	N060	Nov-2014
X	8x Telescope	NA	NA	NA	Per Use
X	Std. Diopter Set	NA	NA	NA	NA

INTERTEK TEST DATA SHEETS

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Job No.:	<u>G101529224</u>	Tested By:	<u>Andrew Rulison</u> Date: <u>3/7/14</u>
Product:	<u>Spectacle</u>	Reviewed By:	<u>Chad Morey</u> Date: <u>3/7/14</u>
Model No.:	<u>Turbine Gris AF</u>	Standard:	<u>ANSI/ISEA Z87.1-2010</u>

Sample Control
Number:

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TRANSCRIBED TEST DATA

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Section 5, General Requirements (All Protectors)

Section (Test)	Requirement	Results	Compliance																	
5	General Requirements (All Protectors)																			
5.1.1 (9.1)	Optical Quality: Lenses shall be free of striae, bubbles, waves and other visible defects which would impair their optical quality	<table border="1"> <tr> <td>Sample #:</td> <td align="center">1</td> </tr> <tr> <td>Defects:</td> <td align="center">NO</td> </tr> </table>	Sample #:	1	Defects:	NO	PASS													
Sample #:	1																			
Defects:	NO																			
5.1.2 (9.2)	Luminous Transmission: Clear lenses shall have a luminous transmission of not less than 85%.	<table border="1"> <tr> <th colspan="3">Laboratory Conditions:</th> </tr> <tr> <td>Req'd:</td> <td>Temperature Range 18-28 °C (65-82 °F)</td> <td>Humidity Range 35-65 %</td> </tr> <tr> <td>Actual:</td> <td align="center">25°</td> <td align="center">18</td> </tr> </table> <table border="1"> <tr> <td>Sample #:</td> <td align="center">1</td> </tr> <tr> <th colspan="2">Percent Transmittance</th> </tr> <tr> <td>Left</td> <td>Right</td> </tr> <tr> <td align="center">12.11</td> <td align="center">11.41</td> </tr> </table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	25°	18	Sample #:	1	Percent Transmittance		Left	Right	12.11	11.41	PASS
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5.1.3 (9.3)	Haze: Clear plano lenses shall not exhibit more than 3% haze.	<table border="1"> <tr> <th colspan="3">Laboratory Conditions:</th> </tr> <tr> <td>Req'd:</td> <td>Temperature Range 18-28 °C (65-82 °F)</td> <td>Humidity Range 35-65 %</td> </tr> <tr> <td>Actual:</td> <td align="center">25°</td> <td align="center">18</td> </tr> </table> <table border="1"> <tr> <td>Sample #:</td> <td align="center">1</td> </tr> <tr> <th colspan="2">Percent Haze</th> </tr> <tr> <td>Left</td> <td>Right</td> </tr> <tr> <td align="center">0.71</td> <td align="center">0.64</td> </tr> </table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	25°	18	Sample #:	1	Percent Haze		Left	Right	0.71	0.64	PASS
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INTERTEK TEST DATA SHEETS

Client: Vicsa Safety Engineer: Chad Morey
 Job No.: G101529224 Tested By: Andrew Rulison Date: 3/7/14
 Product: Spectacle Reviewed By: Chad Morey Date: 3/7/14
 Model No.: Turbine Gris AF Standard: ANSI/ISEA Z87.1-2010

Sample Control
 Number: **CRT1402071156-001**

TRANSCRIBED TEST DATA

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

Section (Test)	Requirement	Results	Compliance																																																									
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5.1.4 (9.4, 9.5)	Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors: The tolerance on refractive power, astigmatism and resolving power shall be as indicated in Table 1. The tolerance on Prism and Prism Imbalance shall be as indicated in Table 2. <table border="1" style="margin-left: 20px;"> <tr><th colspan="2">Prism Imbalance*</th></tr> <tr><th>Left</th><th>Right</th></tr> <tr><td>0.09</td><td>0.23</td></tr> </table> * for calculation only	Prism Imbalance*		Left	Right	0.09	0.23	<table border="1" style="margin-left: 20px;"> <tr><th colspan="3">Laboratory Conditions:</th></tr> <tr><th>Req'd:</th><th>Temperature Range 18-28 °C (65-82 °F)</th><th>Humidity Range 35-65 %</th></tr> <tr><td>Actual:</td><td>25°</td><td>18</td></tr> </table> <table border="1" style="margin-left: 20px;"> <tr><th colspan="3">Test</th><th>Left</th><th>Right</th></tr> <tr><td colspan="3">Refractive Power (D)</td><td>0.01</td><td>0.03</td></tr> <tr><td colspan="3">Astigmatism (D)</td><td>0.01</td><td>0.03</td></tr> <tr><td colspan="3">Resolving Power (>20)</td><td>24</td><td>24</td></tr> </table> <table border="1" style="margin-left: 20px;"> <tr><th colspan="4">Prism</th></tr> <tr><th colspan="2">Left</th><th colspan="2">Right</th></tr> <tr><th>Vertical</th><th>Horizontal</th><th>Vertical</th><th>Horizontal</th></tr> <tr><td>-0.0625</td><td>-0.0625</td><td>-0.1875</td><td>-0.125</td></tr> </table> <table border="1" style="margin-left: 20px;"> <tr><th colspan="2">Prism Imbalance</th></tr> <tr><th>Vertical</th><th>Horizontal</th></tr> <tr><td>-0.063</td><td>-0.125</td></tr> </table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	25°	18	Test			Left	Right	Refractive Power (D)			0.01	0.03	Astigmatism (D)			0.01	0.03	Resolving Power (>20)			24	24	Prism				Left		Right		Vertical	Horizontal	Vertical	Horizontal	-0.0625	-0.0625	-0.1875	-0.125	Prism Imbalance		Vertical	Horizontal	-0.063	-0.125	PASS
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Client:	<u>Vicsa Safety</u>	Engineer:	<u>Chad Morey</u>
Job No.:	<u>G101529224</u>	Tested By:	<u>Andrew Rulison</u> Date: <u>3/7/14</u>
Product:	<u>Spectacle</u>	Reviewed By:	<u>Chad Morey</u> Date: <u>3/7/14</u>
Model No.:	<u>Turbine Gris AF</u>	Standard:	<u>ANSI/ISEA Z87.1-2010</u>

Sample Control
Number:

CRT1402071156-001

TRANSCRIBED TEST DATA

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

Section (Test)	Requirement	Results	Compliance																								
5	General Requirements (All Protectors)																										
5.2.1 (9.6)	<p>Drop Ball Impact Resistance:</p> <p>The protector lenses shall not fracture when impacted by a steel ball. A complete device shall fail if any of the following occurs; piece fully detached from inner surface, fracture, penetration of the rear surface, or lens not retained</p>	<table border="1"> <tr><th colspan="3">Laboratory Conditions:</th></tr> <tr> <td>Req'd:</td> <td>Temperature Range 18-28 °C (65-82 °F)</td> <td>Humidity Range 35-65 %</td> </tr> <tr> <td>Actual:</td> <td>69°</td> <td>41%</td> </tr> </table> <table border="1"> <tr> <th>Sample 9.6:</th> <th>Impact eye Location</th> <th>Fracture, penetration, etc</th> </tr> <tr> <td>(1)</td> <td>Left</td> <td>NO</td> </tr> <tr> <td>(2)</td> <td>Left</td> <td>NO</td> </tr> <tr> <td>(3)</td> <td>Right</td> <td>NO</td> </tr> <tr> <td>(4)</td> <td>Right</td> <td>NO</td> </tr> </table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	69°	41%	Sample 9.6:	Impact eye Location	Fracture, penetration, etc	(1)	Left	NO	(2)	Left	NO	(3)	Right	NO	(4)	Right	NO	PASS
Laboratory Conditions:																											
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(1)	Left	NO																									
(2)	Left	NO																									
(3)	Right	NO																									
(4)	Right	NO																									
5.2.3 (9.7)	<p>Ignition:</p> <p>Protectors shall not ignite or continue to glow once the rod is removed. Each externally exposed material (exclusive of textiles or elastic bands) shall be tested.</p>	<table border="1"> <tr><th colspan="3">Laboratory Conditions:</th></tr> <tr> <td>Req'd:</td> <td>Temperature Range 18-28 °C (65-82 °F)</td> <td>Humidity Range 35-65 %</td> </tr> <tr> <td>Actual:</td> <td>70°</td> <td>55%</td> </tr> </table> <table border="1"> <tr> <th>Type</th> <th>Ignition</th> <th>Afterglow</th> </tr> <tr> <td>Lens</td> <td>No</td> <td>No</td> </tr> <tr> <td>Frame</td> <td>No</td> <td>No</td> </tr> <tr> <td>Temple</td> <td>No</td> <td>No</td> </tr> </table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	70°	55%	Type	Ignition	Afterglow	Lens	No	No	Frame	No	No	Temple	No	No	PASS			
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5.2.4 (9.8)	<p>Corrosion Resistance:</p> <p>Metal components used in protectors shall be corrosion resistant to the degree that the function of the protector shall not be impaired by the corrosion. Lenses and electrical components are excluded from these requirements.</p>	<table border="1"> <tr><th colspan="3">Laboratory Conditions:</th></tr> <tr> <td>Req'd:</td> <td>Temperature Range 18-28 °C (65-82 °F)</td> <td>Humidity Range 35-65 %</td> </tr> <tr> <td>Actual:</td> <td>70°</td> <td>64%</td> </tr> </table> <table border="1"> <tr> <th>Sample #:</th> <th>Function Impaired</th> </tr> <tr> <td>Metal Components</td> <td></td> </tr> <tr> <td>Screws</td> <td>NO</td> </tr> </table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	70°	64%	Sample #:	Function Impaired	Metal Components		Screws	NO	PASS									
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Job No.: <u>G101529224</u>	Tested By: <u>Andrew Rulison</u>	Date: <u>3/7/14</u>
Product: <u>Spectacle</u>	Reviewed By: <u>Chad Morey</u>	Date: <u>3/7/14</u>
Model No.: <u>Turbine Gris AF</u>	Standard: <u>ANSI/ISEA Z87.1-2010</u>	

Sample Control
Number: **CRT1402071156-001**

TRANSCRIBED TEST DATA

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

Section 6, Impact Protector Requirements (Z87+)

Section (Test)	Requirement	Results	Compliance																								
6	Impact Protector Requirements (Z87+)																										
6.1.3 (9.10)	<p>Lateral (side) Coverage:</p> <p>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 less than 10 mm (0.394 in.) above and not less than 10 mm (0.394 in.) below the horizontal plane centered on the eyes of the headform.</p>	<table border="1" style="width:100%"> <thead> <tr> <th align="center" colspan="2">Sample #:</th> <th align="center">Coverage</th> </tr> <tr> <th align="center">Location</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>0° Right (random) 10 mm above</td> <td></td> <td align="center">YES</td> </tr> <tr> <td>90° Right 10mm above</td> <td></td> <td align="center">YES</td> </tr> <tr> <td>90° Left 10mm above</td> <td></td> <td align="center">YES</td> </tr> <tr> <td>0° Left (random) 10mm below</td> <td></td> <td align="center">YES</td> </tr> <tr> <td>90° Right 10mm below</td> <td></td> <td align="center">YES</td> </tr> <tr> <td>90° Left 10mm below</td> <td></td> <td align="center">YES</td> </tr> </tbody> </table>	Sample #:		Coverage	Location			0° Right (random) 10 mm above		YES	90° Right 10mm above		YES	90° Left 10mm above		YES	0° Left (random) 10mm below		YES	90° Right 10mm below		YES	90° Left 10mm below		YES	PASS
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90° Right 10mm below		YES																									
90° Left 10mm below		YES																									
6.2.2 (9.11)	<p>High Mass Impact:</p> <p>The complete device shall be capable of resisting an impact from a pointed projectile.</p> <p>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.</p>	<table border="1" style="width:100%"> <thead> <tr> <th align="center" colspan="3">Laboratory Conditions:</th> </tr> <tr> <th align="center">Req'd:</th> <th align="center">Temperature Range 18-28 °C (65-82 °F)</th> <th align="center">Humidity Range 35-65 %</th> </tr> </thead> <tbody> <tr> <td align="center">Actual:</td> <td align="center">69°</td> <td align="center">41%</td> </tr> </tbody> </table> <table border="1" style="width:100%"> <thead> <tr> <th align="center">Sample 9.11:</th> <th align="center">Impact eye Location</th> <th align="center">Fracture, penetration, etc</th> </tr> </thead> <tbody> <tr> <td align="center">(1)</td> <td align="center">Left</td> <td align="center">NO</td> </tr> <tr> <td align="center">(2)</td> <td align="center">Left</td> <td align="center">NO</td> </tr> <tr> <td align="center">(3)</td> <td align="center">Right</td> <td align="center">NO</td> </tr> <tr> <td align="center">(4)</td> <td align="center">Right</td> <td align="center">NO</td> </tr> </tbody> </table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	69°	41%	Sample 9.11:	Impact eye Location	Fracture, penetration, etc	(1)	Left	NO	(2)	Left	NO	(3)	Right	NO	(4)	Right	NO	PASS
Laboratory Conditions:																											
Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %																									
Actual:	69°	41%																									
Sample 9.11:	Impact eye Location	Fracture, penetration, etc																									
(1)	Left	NO																									
(2)	Left	NO																									
(3)	Right	NO																									
(4)	Right	NO																									

INTERTEK TEST DATA SHEETS

Client: <u>Vicsa Safety</u>	Engineer: <u>Chad Morey</u>
Job No.: <u>G101529224</u>	Tested By: <u>Andrew Rulison</u> Date: <u>3/7/14</u>
Product: <u>Spectacle</u>	Reviewed By: <u>Chad Morey</u> Date: <u>3/7/14</u>
Model No.: <u>Turbine Gris AF</u>	Standard: <u>ANSI/ISEA Z87.1-2010</u>

Sample Control
Number: **CRT1402071156-001**

TRANSCRIBED TEST DATA

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

**6.2.3
(9.12)**

High Velocity Impact:

The complete device shall be capable of resisting impact from a 6.35 mm (0.25 in) diameter steel ball traveling at the velocity specified in Table 5 (see Appendix A). No contact with the eye of the headform is permitted as a result of the impact.

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. For the high-velocity test, the unaided eye observes any piece adhering to the contact paste, or observes contact paste on the projectile or complete device.

****Complete APPENDIX A prior to testing ****

Steel Ball		
	Required	Actual
Diameter, mm	6.35	6.33
Weight, grams	1.06	1.05

Laboratory Conditions:		
Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %
Actual:	69°	40%

Sample #:	9.12
-----------	------

#	Impact Location	Impact Velocity (ft/s)	Contact w/ eye
(1)	0° Rt. Eye	252.0	NO
(2)	30° Rt. Eye	252.2	NO
(3)	*90° Rt. Eye (above)	249.8	NO
(4)	0° Lt. Eye	250.3	NO
(5)	30° Lt. Eye	250.1	NO
(6)	*90° Lt. Eye (below)	252.0	NO

***10 mm above or below the plane of the eyes.**

PASS

INTERTEK TEST DATA SHEETS

Client: <u>Vicsa Safety</u>	Engineer: <u>Chad Morey</u>
Job No.: <u>G101529224</u>	Tested By: <u>Andrew Rulison</u> Date: <u>3/7/14</u>
Product: <u>Spectacle</u>	Reviewed By: <u>Chad Morey</u> Date: <u>3/7/14</u>
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Sample Control
Number: **CRT1402071156-001**

TRANSCRIBED TEST DATA

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

6.2.4 (9.13)	Penetration Test (lenses only): Lenses for all complete devises shall be capable of resisting penetration by a weighted needle. 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.	Laboratory Conditions:			PASS	
		Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %		
		Actual:	70°	42%		
		Sample 9.13:	Impact eye Location	Penetration		
		(1)	Left	NO		
(2)	Left	NO				
(3)	Right	NO				
(4)	Right	NO				

Section 8, Droplet and Splash, Dust, and Fine Dust Protector Requirements

Section (Test)	Requirement	Results	Compliance																			
8	Droplet and Splash, Dust, and Fine Dust Protector Requirements																					
8.1	Droplet and Splash:																					
8.1.1 (9.16.1)	Goggles: The droplets and/or splash shall not cause a red coloration within either of the two circles described in the test method. No account shall be taken of any such coloration up to a distance of 6 mm (0.24 in.) inside the edges of the protector.	<table border="1" style="width:100%"> <tr> <td colspan="3" style="text-align:center">Laboratory Conditions:</td> </tr> <tr> <td style="width:10%">Req'd:</td> <td style="width:20%">Temperature Range 18-28 °C (65-82 °F)</td> <td style="width:10%">Humidity Range 35-65 %</td> <td></td> </tr> <tr> <td>Actual:</td> <td>70°</td> <td>51%</td> <td></td> </tr> <tr> <td>Sample #:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Red discoloration within the circles:</td> <td align="center" colspan="3">NO</td> </tr> </table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %		Actual:	70°	51%		Sample #:				Red discoloration within the circles:	NO			PASS
Laboratory Conditions:																						
Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %																				
Actual:	70°	51%																				
Sample #:																						
Red discoloration within the circles:	NO																					