



Test Report # T5375-01 Issue1
ANSI Z89.1-2009 Standard
Representaciones Internacionales JYR S.A.
WW-2004 – Industrial Safety Helmet
09 March 2010

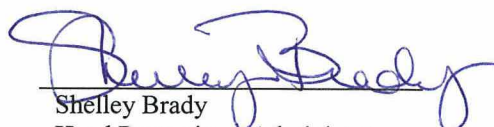


Certificate 1722.01

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 Camino al Milagro # 104
 Colonia El Milagro
 Apodaca 66634
 Mexico

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Objective:

Contract testing to ANSI Z89.1-2009 "American National Standard for Industrial Head Protection".

Type I, Class E

Sample(s):

WW-2004 - Industrial Safety Helmets:

Description	Qty	Date Code	Material	Received	Sample ID
White Shell with Pinlock Suspension	15	8/09	PE	26 February 2010	5A-x
Blue Shell with Pinlock Suspension	15				

Procedures:

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests.

Testing procedures as specified within Section 9 of ANSI Z89.1-2009 were followed.

Testing was performed at room temperature $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$ ($73.4^{\circ}\text{F} \pm 3.6^{\circ}\text{F}$) per ANSI Z89.1 – 2009.

Assessment Summary:

Date tested: 04 March 2010

Requirements	Compliant	Non Compliant
6 Instruction and Marking	X	
7 Performance Requirements		
7.1 Requirements for Type I and Type II		
7.1.1 Flammability	X	
7.1.2 Force Transmission	X	
7.1.3 Apex Penetration	X	
7.1.4 Electrical Insulation Requirement		
7.1.4.2 Electrical Insulation Requirement - Class E	X	

Sample as assessed meet the requirements of ANSI Z89.1 2009 for Type I, Class E.

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Results:

6 Instruction and Marking

	Pass	Fail
6.1 Instructions Provided	X	
6.2 Marking:		
-the name or mark of the manufacturer	X	
-the date of manufacture	X	
-the American National Standard designation (ANSI/ISEA Z89.1)	X	
-the applicable Type and Class followed by optional criteria markings (if applicable)		
 – Reverse Donning LT – Lower Temperature HV – High Visibility	X	
-the approximate headband size range	X	

Note: All markings under clause 6.2 shall be at least 1.5 mm (0.06 in.) in height.

7.1.1 Flammability

Sample ID	Afterflame (sec)	Pass	Fail
5A-12	0.0	X	
Specification:	< 5		

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7.1.2 Force Transmission

Sample ID	Conditioning	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
5A-1	49° ± 2°C	5.52	2470	≤ 4450	1, 2	X	
5A-2		5.50	2533		1	X	
5A-3		5.49	2438		1	X	
5A-4		5.50	8232		3	X	
5A-5		5.49	2685		1	X	
5A-6		5.51	2443		1	X	
5A-7		5.49	2728		2	X	
5A-8		5.45	2599		2, 3	X	
5A-9		5.50	2603		2, 3	X	
5A-10		5.52	2482		2, 3	X	
5A-11		5.47	2728		1, 2	X	
5A-12		5.51	2758		1	X	
Average			3058	≤ 3780		X	
5A-13	-18 ± 2°C	5.51	11547	≤ 4450	3, 4	X	
5A-14		5.50	4059		-	X	
5A-15		5.52	3581		3, 4	X	
5A-16		5.52	3756		3, 4	X	
5A-17		5.53	3162		3, 4	X	
5A-18		5.50	3176		3, 4	X	
5A-19		5.52	3304		3, 4	X	
5A-20		5.51	2798		3, 4	X	
5A-21		5.50	3628		3	X	
5A-22		5.52	3372		3, 4	X	
5A-23		5.51	3687		3, 4	X	
5A-24		5.53	3974		3, 4	X	
Average			4170	≤ 3780		X	
Specification:		5.50 ± 0.05 m/s					

Note: Drop Height: 60.7 inches

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7.1.3 Apex Penetration

Sample ID	Conditioning	Velocity (m/s)	Electrical Contact (Yes/ No)	Observations	Pass	Fail
5A-25	49° ± 2°C	7.0	No	-	X	
5A-26		7.0	No	-	X	
5A-27		7.0	No	-	X	
5A-28	-18 ± 2°C	7.0	No	1, 2	X	
5A-29		7.0	No	-	X	
5A-30		7.0	No	-	X	
Specification:		7.0 ± 0.1 m/s	No Electrical Contact Allowed			

Note: Drop Height: 98.3 inches

Observations:

- 1 – Suspension tab broke
- 2 – Suspension tab released

7.1.4 Electrical Insulation Requirements (Class E)

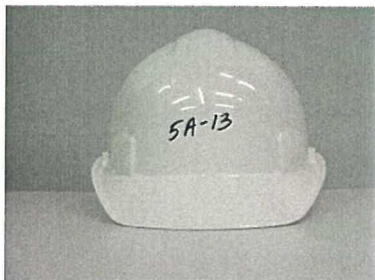
Sample ID	Leakage (mA)	Burn Through (Yes/ No)	Observations	Pass	Fail
5A-1	4.5	No	-	X	
5A-13	4.7	No	-	X	
Specification: Class E: ≤ 9 mA		No Burn Through Allowed			

Note: Class E - 20,000 volts, 60 Hz, 3 minutes, 30,000 volts no burn through.

Observations:

None

Sample Photographs:



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