



Test Report # T11715-02-1 Issue 1
ANSI/ISEA Z89.1 - 2014
EGE Imbat Corp.
BBU Safety CNG 500 – Industrial Safety Helmet
13 September 2017



Approved by:

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Prepared by:

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 Izmir 35170
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Objective:

Contract testing to ANSI/ ISEA Z89.1-2014 “American National Standard for Industrial Head Protection”.
 -Type I, Class E, G & C

Sample(s):

BBU Safety CNG 500 - Industrial Safety Helmet

Description	Qty	Date Code	Material	Date Received	Sample ID
White Shell (Cap) w/ Ratchet Suspension (4 pt.), Non-vented	32	08/17	PE+HD	08 September 2017	5A-02-x

Procedures:

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

Testing procedures as specified within Section 10 of ANSI/ ISEA Z89.1-2014 were followed.

Testing was performed at room temperature 23°C ± 3°C (73.4°F ± 5.4°F) per ANSI/ ISEA Z89.1 – 2014.

Equipment:

Cadex Twin Wire Test Platform
 Envirotronics Model FLX900 Environmental Conditioning Chamber
 Cadex Impact Software V6.9U
 Hanco Dielectric Strength Chamber

Assessment Summary:

Date Tested: 12 September 2017 – 13 September 2017
 Test Performed By: Pete Turpin – Senior Technician


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

Samples as assessed meet the requirements of ANSI/ ISEA Z89.1 2014 for Type I, Class E, G & C.

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Results:

6	Instructions 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 Z89.1-2014)	X	
	-the applicable Type and Class followed by optional criteria markings (if applicable)	X	
6.3	Optional Performance:		
	 - Reverse Donning		Not Applicable
	LT - Lower Temperature		
	HV - High Visibility		
	HT - Higher Temperature		
	-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-02-12	0	X	
Specification:	< 5		

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7.1.2 Force Transmission

Sample ID	Conditioning (°C)	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
5A-02-1	49 ± 2	5.54	2364	≤ 4450	-	X	
5A-02-2		5.52	2430		-	X	
5A-02-3		5.51	2435		-	X	
5A-02-4		5.52	2421		-	X	
5A-02-5		5.52	2446		-	X	
5A-02-6		5.51	2422		-	X	
5A-02-7		5.50	2454		-	X	
5A-02-8		5.52	2441		-	X	
5A-02-9		5.50	2432		-	X	
5A-02-10		5.51	2443		-	X	
5A-02-11		5.51	2457		-	X	
5A-02-12		5.51	2494		-	X	
Average			2437	≤ 3780		X	
5A-02-13	-18 ± 2	5.50	3057	≤ 4450	-	X	
5A-02-14		5.51	3121		-	X	
5A-02-15		5.51	2998		-	X	
5A-02-16		5.51	3070		-	X	
5A-02-17		5.51	3074		-	X	
5A-02-18		5.49	3143		-	X	
5A-02-19		5.49	3202		-	X	
5A-02-20		5.52	3180		-	X	
5A-02-21		5.50	3052		-	X	
5A-02-22		5.49	3159		-	X	
5A-02-23		5.50	2994		-	X	
5A-02-24		5.49	3195		-	X	
Average			3104	≤ 3780		X	
Specification:		5.50 ± 0.05					

Observations:
(-) No observation

7.1.3 Apex Penetration

Sample ID	Conditioning (°C)	Velocity (m/s)	Electrical Contact (Yes/ No)	Observations	Pass	Fail
5A-02-25	49 ± 2	7.0	No	-	X	
5A-02-26		7.0	No	-	X	
5A-02-27		6.9	No	-	X	
5A-02-28	-18 ± 2	7.0	No	-	X	
5A-02-29		7.0	No	-	X	
5A-02-30		7.0	No	-	X	
Specification:		7.0 ± 0.1	No Electrical Contact Allowed			

Observations:
(-) No observation

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7.1.4.3 Electrical Insulation Requirements (Class E)

Sample ID	Leakage (mA)	Burn Through (Yes/ No)	Observations	Pass	Fail
5A-02-1	3.2	No	-	X	
5A-02-13	3.5	No	-	X	
Specification:	Class E: ≤9 mA	No Burn Through Allowed			

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

Observations:
 (-) No observation

Sample Photographs:



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