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Test Report # T13191-02-1 Issue 1
ANSI/ISEA Z89.1-2014
Zhejiang Nicety Technology Co., Ltd.
NTA-A2 – Industrial Safety Helmet
20 March 2019



Approved by:

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Issued to: Zhejiang Nicety Technology Co., Ltd.
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Luqiao District, Taizhou City, Zhejiang
China

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Objective:

Contract testing to ANSI/ ISEA Z89.1-2014 “American National Standard for Industrial Head Protection”.

-Type I, Class C

Sample(s):

NTA-A2* - Industrial Safety Helmet

Description	Qty	Date Code	Material	Date Received	Sample ID
White Shell (Cap) w/ Ratchet Suspension (6 pt.), Vented	30	1/19	ABS	16 January 2019	1A-x
	24	2/19		13 March 2019	1A-02-x

*NTA-A2 not present on product

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

Assessment Summary:

Date Tested: 07 February 2019 – 13 February 2019 & 19 March 2019
Test Performed By: David Petit – Test Engineer

Requirements	Compliant	Non-Compliant
6 Instruction and Marking	Excluded	
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	
7.3 Requirements for Optional Testing	Not Applicable	
7.3.1 Reverse Wearing		
-Force Transmission		
7.3.2 High-Visibility		
7.3.3 Higher Temperature		
7.3.4 Lower Temperature		

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

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Results:

7.1.1 Flammability

Sample ID	Afterflame (sec)	Pass	Fail
1A-12	0	X	
Specification:	< 5		

7.1.2 Force Transmission

Sample ID	Conditioning (°C)	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
1A-02-1	49 ± 2	5.49	2971	≤ 4450	-	X	
1A-02-2		5.49	3102		-	X	
1A-02-3		5.49	3065		-	X	
1A-02-4		5.48	3037		-	X	
1A-02-5		5.48	3083		-	X	
1A-02-6		5.48	3303		-	X	
1A-02-7		5.48	3094		-	X	
1A-02-8		5.50	3008		-	X	
1A-02-9		5.50	3041		-	X	
1A-02-10		5.48	3156		-	X	
1A-02-11		5.50	3038		-	X	
1A-02-12		5.49	3127		-	X	
Average			3085	≤ 3780		X	
1A-02-13	-18 ± 2	5.49	3487	≤ 4450	-	X	
1A-02-14		5.51	3543		-	X	
1A-02-15		5.49	3329		-	X	
1A-02-16		5.50	3390		-	X	
1A-02-17		5.51	3403		-	X	
1A-02-18		5.50	3431		-	X	
1A-02-19		5.50	3401		-	X	
1A-02-20		5.51	3392		-	X	
1A-02-21		5.48	3458		-	X	
1A-02-22		5.50	3493		-	X	
1A-02-23		5.49	3501		-	X	
1A-02-24		5.49	3528		-	X	
Average			3446	≤ 3780		X	
Specification:		5.50 ± 0.05					

Observations:
(-) No observation

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7.1.3 Apex Penetration

Sample ID	Conditioning (°C)	Velocity (m/s)	Electrical Contact (Yes/ No)	Observations	Pass	Fail
1A-25	49 ± 2	7.0	No	-	X	
1A-26		7.0	No	-	X	
1A-27		6.9	No	-	X	
1A-28		6.9	No	-	X	
1A-29	-18 ± 2	6.9	No	-	X	
1A-30		7.0	No	-	X	
Specification:		7.0 ± 0.1	No Electrical Contact Allowed			

Observations:
(-) No observation

Sample Photographs:

1A



1A-02



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