

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid to: November 30, 2024 Certificate Number: 0214.55

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on <u>armor systems</u>, <u>armored windows</u>, <u>bullet cores</u>, <u>ceramics</u>, <u>composites</u>, <u>electronics</u>, <u>eyewear</u>, <u>flexible armored fabrics</u>, <u>helmets</u>, <u>metals</u>, <u>and personal body armor systems</u>:

Test Description:	Test Standard(s)/Method(s) ² :
<u>Ballistics</u>	
Aluminum Alloy Armor Rolled Plate	MIL-DTL-46192C (MR)
(½ to 4) Inches Thick, Weldable (Alloy 2519)	
Armor Plate, Aluminum Alloy, 7039	MIL-DTL-46063H
Armor Plate, Aluminum Alloy, Weldable 5083 and 5456	MIL-A-46027H
Armor Plate, Titanium Alloy, Weldable	MIL-DTL-46077G
Armor Plate, Steel, Wrought, Ultra-High Hardness	MIL-DTL-32332 (MR)
Armor Plate, Steel, Wrought, High-Hardness	MIL-A-46100E
Ballistic Resistance of Personal Body Armor	NIJ 0101.04, 0101.06
Ballistic Resistant Protective Materials	NIJ 0108.01
Ballistic Test Method for Personal Armor Materials and Combat	STANAG 2920 - AEP 2920;
Clothing	STANAG 2920 Ed. 3
Drug Enforcement Administration (DEA) Body Armor Testing	DEA 2018
Protocol	
Evaluating the Protection Level of Logistic and Light Armored	AEP-55 (Vol. 1, Ed. 1)
Vehicles	
FBI Body Armor Test Protocol	FBI Body Armor Test Protocol v4.1
Improved Outer Tactical Vest (IOTV) Gen III	FQ/PD 07-05 (3.6.1, 3.7)
Performance Specification Special Operations Forces Personal	MICH – Lightweight (3.6.1, 3.6.2, 3.8,
Equipment Advanced Requirements (SPEAR)	3.10, 3.11, 3.12, 3.13, 3.14, 3.17, 3.18,
	3.19, 3.21.2.1, 3.21.2.2)
Protection Levels for Occupants of Logistic and Light Armored	STANAG 4569
Vehicles	
Purchase Description: Personal Armor Enhanced Side Ballistic	AR/PD 11-06 (3.7.2, 3.7.3, 3.7.6, 3.8.2,
Insert (ESBI)	3.8.3, 3.8.4, 3.8.5)
Purchase Description: Personal Enhanced Small Arms Protective	CO/PD 04-19G (3.8.2, 3.8.3, 3.8.6, 3.9)
Insert (ESAPI)	
Purchase Description Transparent Armor	ATPD 2352T (Except 3.3.6, 4.6.1)
V50 Ballistic Test for Armor	MIL-STD-662F

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Test Description:	Test Standard(s)/Method(s) ² :
Ballistics (cont.)	
Bullet Resisting Equipment	UL 752 (11)
Fragmentation Helmet, Lightweight, USMC	FQ/PD 06-35C (3.4.2, 3.4.3.4, 3.4.9.2,
	3.6, 3.8.2, 3.8.3, 3.8.4, 3.8.5, 3.8.6,
	3.8.8, 3.8.10)
Military Specification Helmet, Ground Troops and Parachutists ¹	MIL-H-44099A (3.5.1, 3.5.2, 3.6)
Purchase Description for the Enhanced Combat Helmet (ECH) ¹	GL-PD-09-04O
Glass in Building – Security Glazing – Testing and Classification of Resistance Against Bullet Attack	BS EN 1063:2000
NIJ Standard for Ballistic Helmets	NIJ 0106.01 (except 4.8)
NIJ Standard for Riot Helmets and Face Shields	NIJ 0104.02
Performance Specification Family of Tactical Headborne Systems	(FTHS) Ballistic and Non-Ballistic
	Helmets
Performance Specification Family of Tactical Headborne Systems	(FTHS) Coxswain Helmet
Helmet, Advance Combat, Second Generation (ACH GEN II)	AR/PD 14-01
Helmet, Advanced Combat – ACH	CO/PD 05-04
Purchase Description for the Advanced Combat Helmet (ACH)	AR/PD 10-02 Revision A, Change 3
	(3.5.6.3, 3.7.1.2, 3.9, 3.10, 3.11,
	3.12.10, 3.12.11, 3.12.12)
CFR Safety Glazing Standards-Locomotives, Passenger Cars, and Cabooses	CFR-2011 Title 49 Volume 4 Part 223
Environmental Simulation	
Environmental Engineering Considerations and Laboratory Tests (-68 to 155) °C and (20 to 100) %RH	MIL-STD-810G, H (501.5, 502.5, 503.5, 504.1, 507.5)
Eye and Face Protective Equipment	
Non-Prescription Sunglasses and Fashion Eyewear – Requirements	ANSI Z80.3, Sections 4.2 and 5.1
Occupational and Educational Eye and Face Protection	ANSI Z87.1, Section 9.12
Visors, Flyer's Helmet, Polycarbonate	MIL-DTL-43511D (3.5.10)
Haze and Luminous Transmittance	ASTM D1003
<u>Helmets</u>	
Motorcycle Helmets	DOT FMVSS 218;
	49 CFR 571.218 Section 7.1
Mass per Unit Area (Weight) of Woven Fabric	ASTM D3776, Option C
Rockwell Hardness Testing	ASTM E18
Scales: (HRB, HRC, HR15N)	
Thickness of Textile Materials	ASTM D1777
Aviation Helmet Standard	DOI/USFS – Ver 4.3 (except sections
Sports Equipment	6.9 and 6.10)
Baseballs and Softballs	ACTM E1007 NA /1 1 A
Coefficient of Restitution (COR)	ASTM F1887, Method A
Compression – Displacement Bats	ASTM F1888
	A STM E2210
Measuring High-Speed Bat Performance Moment of Inertia and Center of Percussion of a Baseball or	ASTM F2219 ASTM F2398
Softball Bat	ASTW1 F2370

Test Description:	Test Standard(s)/Method(s) ² :
Sports Equipment (cont.)	
Bats (cont.)	
Softball and Baseball Bat Barrels – Displacement Compression	ASTM F2844
Softball Bat Performance Factor	ASTM F1890
USSSA Standard for Testing Slow Pitch Bat Performance	Testing in Support of USSSA Slow
COSSIT Standard for Testing Slow I ftell But I errormance	Pitch Bat Certification
USSSA Standard for Testing Senior Youth Bat Performance	Testing in Support of USSSA Senior
COSSIT Standard for Testing Senior Touth But Terrormance	Youth Bat Performance
Senior Softball USABPF Bat Standard	SSUSA
Faceguards for Youth Baseball	ASTM F910
Pickleball	TISTINI 1910
USA Pickleball Certification Standard	USA Pickleball 2020
USA Pickleball Paddle Certification Standard	USA Pickleball Paddle 2020
Helmets	OSTATIONICOUITAUGUE 2020
Bicycle or Roller Skating Helmets	ASTM F1447; CPSC 16 CFR Part 1203
Football Helmets	ASTM F429 -10 (Withdrawn 2017)
Headgear Used in Horse Sports and Horseback Riding	ASTM F1163
Headgear Used in Women's Lacrosse (excluding Goalkeepers)	ASTM F1103 ASTM F3137
Headgear Used in Soccer	ASTM F3137 ASTM F2439
Helmets Used for Recreational Snow Sports	ASTM F2439 ASTM F2040
Helmets Used in Short Track Speed Ice Skating (Not to Include	ASTM F1849
Hockey)	ASTW1 F1049
Helmets Used in Skateboarding and Trick Roller Skating	ASTM F1492
Standard Test Methods for Protective Headgear Standard Test Methods and Equipment Used in Evoluting the	ASTM F1446, Except 12.9
Standard Test Method and Equipment Used in Evaluating the Performance Characteristics of Protective Headgear/Equipment	NOCSAE DOC (ND) 001
Standard Linear Impactor Test Method and Equipment Used in	NOCSAE DOC (ND) 081
Evaluating the Performance Characteristics of Protective Headgear	NOCSAE DOC (ND) 081
and Faceguards	
Standard Projectile Impact Testing Method and Equipment Used in	NOCSAE DOC (ND) 021
Evaluating the Performance Characteristics of Protective	NOCSAE DOC (ND) 021
Headgear, Faceguards or Projectiles	
Standard Test Method and Specification used in Evaluating the	NOCSAE DOC (ND) 015
Corrosion Characteristics of Hardware	NOCSILE DOC (ND) 013
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 022
Baseball/Softball Batter's Helmets	NOCSILE DOC (ND) 022
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 024
Baseball/Softball Catcher's Helmets with Faceguard	11005112 500 (115) 021
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 027
Youth Baseballs	11005112 200 (1.2) 027
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 029
Baseball/Softball Fielder's Headgear	(1,2) (2)
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 072
Baseball/Softball Batter's Helmet Mounted Face Protector	
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 002
Football Helmets	
Standard Method of Impact Test and Performance Requirements	NOCSAE DOC (ND) 087
for Football Faceguards	
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Test Description:	Test Standard(s)/Method(s) ² :
Sports Equipment (cont.)	
Standard Performance Specification for Newly Manufactured Field	NOCSAE DOC (ND) 061
Hockey Headgear	
Standard Performance Specification for Newly Manufactured Field	NOCSAE DOC (ND) 069
Hockey Balls	
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 030
Hockey Helmets	, ,
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 035
Hockey Face Protectors	
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 041
Lacrosse Helmets with Faceguard	
Standard Performance Specification for Newly Manufactured	NOCSAE DOC (ND) 045
Lacrosse Face Protectors	
Standard Performance Specification For Newly Manufactured	NOCSAE DOC (ND) 049
Lacrosse Balls	
Standard Performance Specification for Newly Manufactured Polo	NOCSAE DOC (ND) 050
Helmets	
Standard Performance Specification for Helmet Mounted Polo Eye	NOCSAE DOC (ND) 055
Protection	
Standard Test Method and Performance Specification for Newly	NOCSAE DOC (ND) 090
Manufactured Soccer Shin Guards	

<u>Material Specifications 1:</u>

Headforms	ASTM F2220
Headgear Used in Electric Personal Assistive Mobility Devices	ASTM F2416
Helmets for Non-Motorized Wheeled Vehicles Used	ASTM F1898
by Infants and Toddlers	
Football Helmets	ASTM F717
Standard Guide for Manufacturers for Labeling Headgear Products	ASTM F2727

¹ The laboratory is only accredited for the test methods and standards listed above. The accredited test methods are used in determining compliance with the material specification listed. The inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications listed in this section.

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² When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements-Accreditation of ISO-IEC 17025 Laboratories*.



Accredited Laboratory

A2LA has accredited

NTS-CHESAPEAKE TESTING SERVICES INC.

Belcamp, MD

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system

(refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 8th day of November 2022.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council

Certificate Number 0214.55

Valid to November 30, 2024