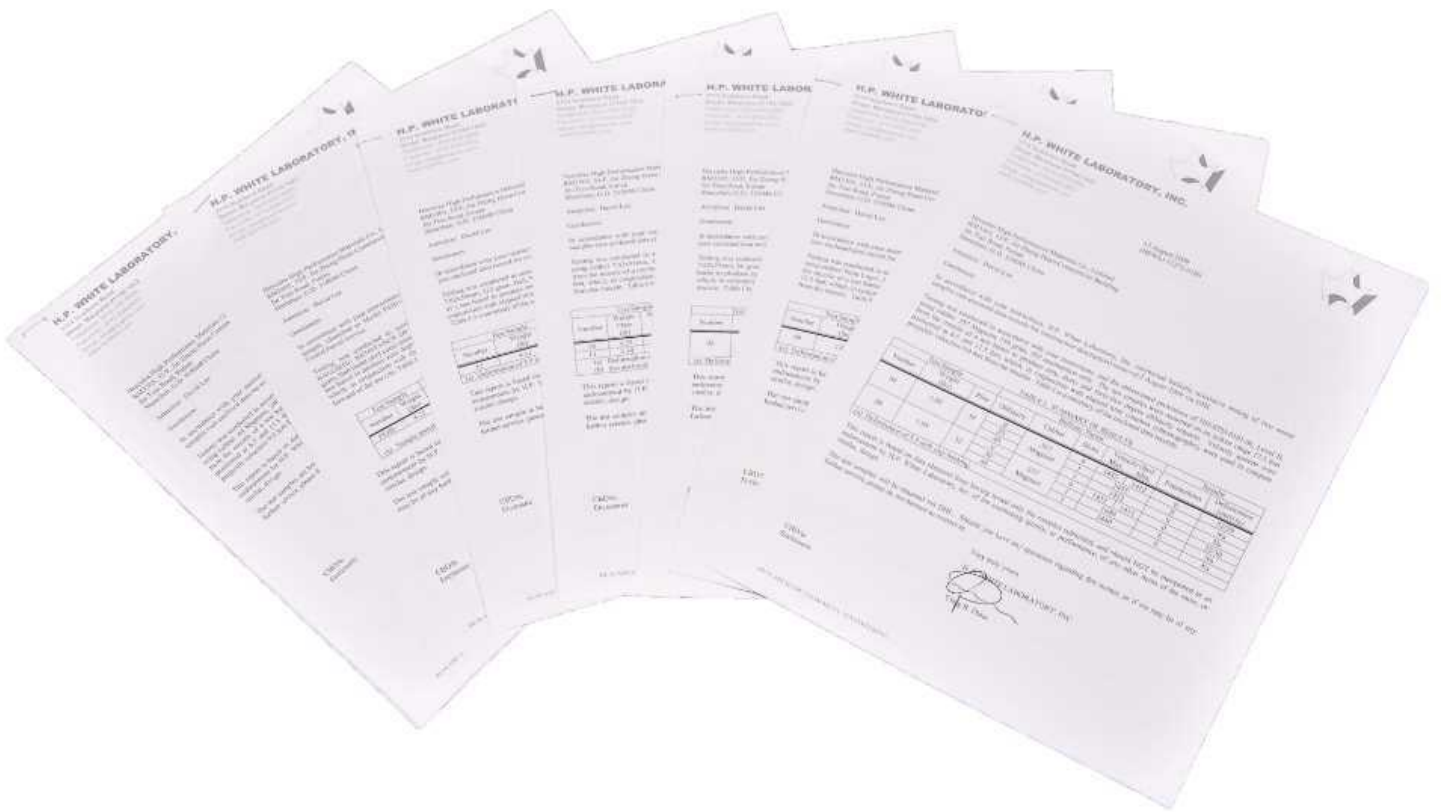




HerculesArmor™

BALLISTIC TEST REPORTS



H.P. WHITE LABORATORY, INC.

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TEST REPORT OF

NIJ 0101.06 Level III+ PE Plate Stand Alone by H.P white

Test sample: 1.88Kg/pc PE Bullet Proof Plate (25x30x2.6cm, ≈25.3kg/m², single curve, full size) stand alone

Ammunition: 7.62x39mm MSC, 123gr. bullet **Barrel No./Gun:** 7.62x39/R1 **Test date:** August, 2009

Standard / Report By: Accord to NIJ standard 0101.06 AK47 7.62x39mm MSC, 123gr@715m/s by U.S H.P. White Lab.

Shot No.	Range	Angle (°)	Velocity (m/s)	Velocity (ft/s)	Result	BFS depth value	Report BY (US H.P. White)
1	15M	0	733.3	2406	Stopped	36mm	
2			727.8	2388	Stopped	33mm	
3			727.2	2386	Stopped	41mm	
4			725.7	2381	Stopped	40mm	
5			732.7	2404	Stopped	41mm	
6			720.2	2363	Stopped	37mm	



H.P. White Laboratory, Inc.
BALLISTIC RESISTANCE TEST

Client: HERCULES HIGH PERFORMANCE MATERIALS CO, LTD

Job No. : 11272-01

Test Date : 8/12/09

TEST PANEL

Manufacturer : HERCULES ARMOR
Size : 10 x 12 in.
Thicknesses : NA
Avg. Thick. : NA
Description : SEE REMARKS FOR MAKE-UP.

Sample No. : 12
Weight : 4.11 lbs.
Hardness : NA
Plies/Laminates : 1

Date Rec'd. : 08/05/09
Via : DHL
Returned : DHL

MODEL: HAP-PEAK47MSC--STA (STAND ALONE).

SET-UP

Shot Spacing : PER NIJ-STD-0101.06
Witness Panel : CLAY
Obliquity : 0 deg.
Backing Material : 5.5" CLAY/PLYWOOD
Conditioning : IMPACTED AND SUBMERGED

Primary Vel. Screens : 39.5 ft., 44.5 ft.
Primary Vel. Location : 42.0 ft. From Muzzle
Residual Vel. Screens : NA
Residual Vel. Location : NA
Range to Target : 50.3 ft.
Target to Wit. : 0.0 in.

Range No. : 1
Temp. : 73 F
BP : 29.85 in. Hg
RH : 78%
Barrel No./Gun : 7.62X39/R1
Gunner : P.PAYNE
Recorder : P.PAYNE

AMMUNITION

(1) : 7.62 x 39mm MSC, 123 gr.
(2) :
(3) :
(4) :

Lot No. : UNKOWN
Lot No. :
Lot No. :
Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER NIJ-STD-0101.06 (MODIFIED)
(2) : PRE-TEST CLAY DROPS: 22mm, 21mm, 21mm, 21mm, 20mm
(3) : PRE-TEST CLAY TEMP: 100.0 F

Shot No.	Ammo.	Time 1 (usec)	Velocity 1 (ft/s)	Time 2 (usec)	Velocity 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1	1	2075	2410	2081	2403	2406	None	DEF. 36mm
2	1	2091	2391	2096	2385	2388	None	DEF. 33mm
3	1	2091	2391	2100	2381	2386	None	DEF. 41mm
4	1	2100	2381	2100	2381	2381	None	DEF. 40mm
5	1	2078	2406	2082	2402	2404	None	DEF. 41mm
6	1	2114	2365	2118	2361	2363	None	DEF. 37mm

REMARKS :

MAKE-UP: LAYER 1, 100% UHMW POLYETHYLENE (26mm).

FOOTNOTES :