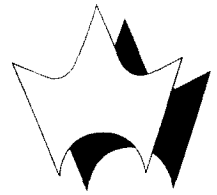


H.P. WHITE LABORATORY, INC.

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17 June 2010
(HPWLI 11562-01A)
(Revised 30 June 2010)
(Revised 6 July 2010)

Tianjin Armor Textiles Co. Ltd.
19 East of Dongmaquan
Dongmaquan D, Wuqing Dist.
Tianjin, China

Attention: Jason Cao

Gentlemen:

In accordance with your instructions, H.P. White Laboratory, Inc. conducted ballistic resistance testing of three proprietary armor test samples, identified as Model Numbers TAT-BA-1 and TAT-BA-3, received 1 June 2010 via DHL.

Testing was conducted in accordance with your instructions, and the abbreviated provisions of NIJ-STD-0101.04, BALLISTIC RESISTANCE OF PERSONAL BODY ARMOR, dated September 2000, Level IIIA, using caliber .44 Magnum, 240 grain, SJHP ammunition and caliber 9mm Luger, 124 grain, FMJ ammunition. The test samples were positioned on an indoor range 16.4 feet from the muzzle of a test barrel to produce zero and thirty degree obliquity impacts. Photoelectric lumiline screens were positioned at 6.5 and 11.5 feet which, in conjunction with elapsed time counters (chronographs), were used to compute projectile velocities 9.0 feet forward of the muzzle. Table I presents a summary of the enclosed data records.

TABLE I. SUMMARY OF RESULTS

Test Sample			Ballistic Threat					Results	
Number	Weight (lb)	Plies	Obliquity (degrees)	Caliber	Shots	Velocity (fps) Max. Min.		Pene- trations	Deform. (mm)(a)
TAT-BA-1 Front	1.61	Na	0	9mm Luger	4	1478	1422	0	31/28
			30		2	1437	1429	0	Na
TAT-BA-3 Front	2.31	Na	0	.44 Magnum	4	1430	1416	0	37/34
			30		2	1427	1425	0	Na
TAT-BA-3 Back	2.40	Na	0	9mm Luger	4	1429	1410	0	23/22
			30		2	1417	1401	0	Na

(a) Deformation of 5.5 inch clay backing; maximum permissible deformation: 44mm.

This report is based on data obtained from having tested only the samples submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test samples are being returned via Federal Express. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Very truly yours,

H.P. White Laboratory, Inc.

Craig B. Dunn

CBD/tc
Enclosures



H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client : Tianjin Armorus Textiles Co. Ltd. (China)

Job No. : 11562-01

Test Date : 6/11/10

TEST PANEL

Manufacturer : Tianjin Armorus Textiles Co. Ltd. (China)

Size : 16 x 19 in.

Thicknesses : NA

Avg. Thick. : NA

Description : PROPRIETARY

PANEL SERIAL#: TAT-BA-1 (FRONT)

Sample No. : TAT-BA-1 (FRONT)

Weight : 1.61 lbs.

Hardness : NA

Plies/Laminates : NA

Date Rec'd. : 6/01/10

Via : Federal Express

Returned : Federal Express

SET-UP

Shot Spacing : PER-NIJ-STD-0101.04

Witness Panel : CLAY

Obliquity : 0 & 30 deg.

Backing Material : 5.5" CLAY/PLYWOOD

Conditioning : WET

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Primary Vel. Location : 9.0 ft. From Muzzle

Residual Vel. Screens : NA

Residual Vel. Location : NA

Range to Target : 16.4 ft.

Target to Wit. : 0.0 in.

Range No. : 2

Temp. : 70 F

BP : 29.88 in. Hg

RH : 65%

Barrel No./Gun : 9mm-R2

Gunner : PAYNE

Recorder : ADAMS

AMMUNITION

(1) : 9mm, FMJ, 124 gr.

(2) :

(3) :

(4) :

Lot No. : REMINGTON 23558

Lot No. :

Lot No. :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.04 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAT DROPS: 19mm, 20mm, 19mm, 18mm, 18mm

(3) : PRE-TEST CLAY TEMP: 99.5 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	3473	1440	3475	1439	1439	None	DEF. 28mm
2	1	3383	1478	3385	1477	1478	None	DEF. 31mm
3	1	3513	1423	3519	1421	1422	None	
4	1	3477	1438	3480	1437	1437	None	(a)
5	1	3499	1429	3500	1429	1429	None	(a)
6	1	3432	1457	3433	1456	1457	None	

REMARKS :

FOOTNOTES :

(a) SHOT IMPACTED ON A 30 DEGREE ANGLE.



H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client : Tianjin Armorus Textiles Co. Ltd. (China)

Job No. : 11562-01

Test Date : 6/11/10

TEST PANEL

Manufacturer : Tianjin Armorus Textiles Co. Ltd. (China)
 Size : 16 x 19 in.
 Thicknesses : NA
 Avg. Thick : NA
 Description : PROPRIETARY
 PANEL SERIAL#: TAT-BA-3 (FRONT)

Sample No. : TAT-BA-3 (FRONT)
 Weight : 2.31 lbs.
 Hardness : NA
 Plies/Laminates : NA

Date Rec'd. : 6/01/10
 Via : Federal Express
 Returned : Federal Express

SET-UP

Shot Spacing : PER-NIJ-STD-0101.04
 Witness Panel : CLAY
 Obliquity : 0 & 30 deg.
 Backing Material : 5.5" CLAY/PLYWOOD
 Conditioning : WET

Primary Vel. Screens : 6.5 ft., 11.5 ft.
 Primary Vel. Location : 9.0 ft. From Muzzle
 Residual Vel. Screens : NA
 Residual Vel. Location : NA
 Range to Target : 16.4 ft.
 Target to Wit. : 0.0 in.

Range No. : 2
 Temp. : 70 F
 BP : 29.88 in. Hg
 RH : 65%
 Barrel No./Gun : 44MAG-R2
 Gunner : PAYNE
 Recorder : ADAMS

AMMUNITION

- (1) : .44MAG SJHP, 240 gr.
- (2) :
- (3) :
- (4) :

Lot No. : REMINGTON 23592
 Lot No. :
 Lot No. :
 Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

- (1) : PER-NIJ-STD-0101.04 LEVEL IIIA (ABBREVIATED)
- (2) : PRE-TEST CLAT DROPS: 18mm, 18mm, 17mm, 18mm, 17mm
- (3) : PRE-TEST CLAY TEMP: 97.0 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	3493	1431	3500	1429	1430	None	DEF. 37mm
2	1	3527	1418	3536	1414	1416	None	
3	1	3523	1419	3536	1414	1417	None	DEF. 34mm
4	1	3503	1427	3513	1423	1425	None	(a)
5	1	3499	1429	3509	1425	1427	None	(a)
6	1	3489	1433	3504	1427	1430	None	

REMARKS :

FOOTNOTES :

(a) SHOT IMPACTED ON A 30 DEGREE ANGLE.



H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client : Tianjin Armorus Textiles Co. Ltd. (China)

Job No. : 11562-01

Test Date : 6/11/10

TEST PANEL

Manufacturer : Tianjin Armorus Textiles Co. Ltd. (China)

Size : 16 x 19 in.

Thicknesses : NA

Avg. Thick. : NA

Description : PROPRIETARY

PANEL SERIAL#: TAT-BA-3 (BACK)

Sample No. : TAT-BA-3 (BACK)

Weight : 2.40 lbs.

Hardness : NA

Plies/Laminates : NA

Date Rec'd. : 6/01/10

Via : Federal Express

Returned : Federal Express

SET-UP

Shot Spacing : PER-NIJ-STD-0101.04

Witness Panel : CLAY

Obliquity : 0 & 30 deg.

Backing Material : 5.5" CLAY/PLYWOOD

Conditioning : WET

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Primary Vel. Location : 9.0 ft. From Muzzle

Residual Vel. Screens : NA

Residual Vel. Location : NA

Range to Target : 16.4 ft.

Target to Wit. : 0.0 in.

Range No. : 2

Temp. : 70 F

BP : 29.88 in. Hg

RH : 65%

Barrel No./Gun : 9mm-R2

Gunner : PAYNE

Recorder : ADAMS

AMMUNITION

(1) : 9mm, FMJ, 124 gr.

(2) :

(3) :

(4) :

Lot No. : REMINGTON 23558

Lot No. :

Lot No. :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.04 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAT DROPS: 21mm, 21mm, 20mm, 20mm, 20mm

(3) : PRE-TEST CLAY TEMP: 100.2 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	3544	1411	3548	1409	1410	None	DEF. 23mm
2	1	3498	1429	3500	1429	1429	None	DEF. 22mm
3	1	3527	1418	3527	1418	1418	None	
4	1	3567	1402	3570	1401	1401	None	(a)
5	1	3527	1418	3531	1416	1417	None	(a)
6	1	3527	1418	3528	1417	1417	None	

REMARKS :

FOOTNOTES :

(a) SHOT IMPACTED ON A 30 DEGREE ANGLE.