

NATIONAL TECHNICAL SYSTEMS
NIJ 0106.01 HELMET
BALLISTIC PENETRATION TEST

Date Received: 08/08/17
 Via: UPS
 Returned Via: UPS

Record No.: JGW17001-7 08/10/17
 Test Date: Jiangxi Great Wall Protect, Lt
 Customer:

Test Conditions

Temperature: 72 °F
 Humidity: 45 %
 Test Spec.: Modified/Abbreviated NIJ Standard 0106.01 for Ballistic Helmets
 December 1981
 Threat Level: IIIA
 Conditioning: Dry

Range 3

Muzzle to Screen 1: 5.70 ft.
 Screen 1 - 2: 5.00 ft.
 Screen 2 - Target: 5.70 ft.
 Midpoint to Target: 8.20 ft.
 Target to Witness: 0.25 ft.
 Headform Size: 7 1/4
 Witness Plate: 2024-T3 Alum.
 Barrel Length: 10 in.

Sample Description			Test / Ammunition Description				Chronograph		Test Results	
Helmet ID	Helmet Serial Number	Helmet Size	Shot No.	Impact Location	Degree Obliquity	Caliber	Bullet Weight (gr.)/Type	TIME ss-f	VELOCITY fps	Penetration No Penetration
N/A	1	L	1	Front	0°	9mm	124 / FMJ	344.9	1450	No Penetration
N/A	1	L	2	Back	0°	9mm	124 / FMJ	345.1	1449	No Penetration
N/A	1	L	3	Left	0°	9mm	124 / FMJ	354.0	1412	No Penetration
N/A	1	L	4	Right	0°	9mm	124 / FMJ	354.6	1410	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample. National Technical Systems, Inc. Phone 318-832-1600
 7447 W. 33rd St. N. Fax 318-832-1602
 Wichita, KS 67205 U.S.A. Email ustl@nts.com

REMARKS / NOTES:

-Helmet tested as a finished shell with pads, suspension and retention systems as received from customer.
 -Penetration Test Headforms used are IAW the dimensions and sizes per Section 5.1.5 and Figure 4.

Test Round Used:

Remington 9mm 124 gr. FMJ @ NIJ 0108.01 Level IIIA velocity of 1400 +/- 50 fps

Impact Locations:

Sagittal Penetration Test Headform

Shot No. 1: Front (65mm from edge): Impact ≤ 9 cm (3.5") above the basic plane and ≤ 5 cm (2.0") from the mid-sagittal plane

Shot No. 2: Back (75mm from edge): Impact within the area diametrically opposite the front impact area (Shot 1)

Coronal Penetration Test Headform

Shot No. 3: Left Side: Impact ≤ 5 cm (2.0") above the basic plane and ≤ 7.5 cm (3.0") from the coronal plane

Shot No. 4: Right Side: Impact ≤ 5 cm (2.0") above the basic plane and ≤ 7.5 cm (3.0") from the coronal plane

Test Results / Remarks / Notes:

Shot No. 1: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet

Shot No. 2: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet

Shot No. 3: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet

Shot No. 4: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet

Sample Tested:

Manufacturer: Jiangxi Great Wall Protect, Ltd.
 Model No.: N/A
 Size: L
 Weight (lbs.): 3.13
 Helmet ID: N/A
 Serial No.: 1
 Threat Level: IIIA

OFFICIAL NTS TEST CERTIFICATE



NTS

Matt Lutz
 Matt Lutz
 Division Manager

Wilson / Nold

NATIONAL TECHNICAL SYSTEMS
NIJ 0106.01 HELMET
BALLISTIC PENETRATION TEST

Date Received: 08/08/17
 Via: UPS
 Returned Via: UPS

Record No.: JGW17001-8 08/10/17
 Test Date: Jiangxi Great Wall Protect, Lt
 Customer:

Test Conditions

Temperature: 72 °F
 Humidity: 45 %
 Test Spec.: Modified/Abbreviated NIJ Standard 0106.01 for Ballistic Helmets
 December 1981
 Threat Level: IIIA
 Conditioning: Wet

Range 3

Muzzle to Screen 1: 5.70 ft.
 Screen 1 - 2: 5.00 ft.
 Screen 2 - Target: 5.70 ft.
 Midpoint to Target: 8.20 ft.
 Target to Witness: 0.25 ft.
 Headform Size: 7 1/4
 Witness Plate: 2024-T3 Alum.
 Barrel Length: 10 in.

Sample Description			Test / Ammunition Description				Chronograph		Test Results	
Helmet ID	Helmet Serial Number	Helmet Size	Shot No.	Impact Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME s-s.6	VELOCITY fps	Penetration
N/A	2	L	1	Front	0°	9mm	124 / FMJ	347.8	1438	No Penetration
N/A	2	L	2	Back	0°	9mm	124 / FMJ	349.3	1431	No Penetration
N/A	2	L	3	Left	0°	9mm	124 / FMJ	347.6	1438	No Penetration
N/A	2	L	4	Right	0°	9mm	124 / FMJ	352.0	1420	No Penetration

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REMARKS / NOTES:

- Helmet tested as a finished shell with pads, suspension and retention systems as received from customer.
- Penetration Test Headforms used are IAW the dimensions and sizes per Section 5.1.5 and Figure 4.
- Helmet immersed in water IAW Section 5.2 for 2-4 hours prior to ballistic testing.

Test Round Used:

Remington 9mm 124 gr. FMJ @ NIJ 0108.01 Level IIIA velocity of 1400 +/- 50 fps

Impact Locations:

Sagittal Penetration Test Headform

Shot No. 1: Front (85mm from edge): Impact \leq 9cm (3.5") above the basic plane and \leq 5cm (2.0") from the mid-sagittal plane

Shot No. 2: Back (75mm from edge): Impact within the area diametrically opposite the front impact area (Shot 1)

Coronal Penetration Test Headform

Shot No. 3: Left Side: Impact \leq 5cm (2.0") above the basic plane and \leq 7.5cm (3.0") from the coronal plane

Shot No. 4: Right Side: Impact \leq 5cm (2.0") above the basic plane and \leq 7.5cm (3.0") from the coronal plane

Test Results / Remarks / Notes:

- Shot No. 1: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
- Shot No. 2: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
- Shot No. 3: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
- Shot No. 4: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet

Sample Tested:

Manufacturer: Jiangxi Great Wall Protect, Ltd.
 Model No.: N/A
 Size: L
 Weight (lbs.): 3.15
 Helmet ID: N/A
 Serial No.: 2
 Threat Level: IIIA

OFFICIAL NTS TEST CERTIFICATE



NTS

[Signature]

Matt Lutz
 Division Manager

Wilson / Nold

NATIONAL TECHNICAL SYSTEMS
NIJ 0106.01 HELMET
BALLISTIC PENETRATION TEST

Date Received: 08/08/17
 Via: UPS
 Returned Via: UPS

Record No.: JGW17001-9 08/10/17
 Test Date: Jiangxi Great Wall Protect, Lt
 Customer:

Test Conditions

Temperature: 72 °F
 Humidity: 45 %
 Test Spec.: Modified/Abbreviated NIJ Standard 0106.01 for Ballistic Helmets
 December 1981
 Threat Level: IIIA
 Conditioning: Dry

Range 3

Muzzle to Screen 1: 5.70 ft.
 Screen 1 - 2: 5.00 ft.
 Screen 2 - Target: 5.70 ft.
 Midpoint to Target: 8.20 ft.
 Target to Witness: 0.25 ft.
 Headform Size: 7 1/4
 Witness Plate: 2024-T3 Alum.
 Barrel Length: 10 in.

Sample Description			Test / Ammunition Description				Chronograph		Test Results	
Helmet ID	Helmet Serial Number	Helmet Size	Shot No.	Impact Location	Degree Obliquity	Caliber	Bullet Weight (gr./Type)	TIME s±s	VELOCITY fps	Penetration No Penetration
N/A	3	L	1	Front	0°	44 Mag 240 /LSWCGC		349.8	1429	No Penetration
N/A	3	L	2	Back	0°	44 Mag 240 /LSWCGC		348.8	1433	No Penetration
N/A	3	L	3	Left	0°	44 Mag 240 /LSWCGC		349.6	1430	No Penetration
N/A	3	L	4	Right	0°	44 Mag 240 /LSWCGC		348.7	1434	No Penetration

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REMARKS / NOTES:

- Helmet tested as a finished shell with pads, suspension and retention systems as received from customer.
- Penetration Test Headforms used are IAW the dimensions and sizes per Section 5.1.5 and Figure 4.
- Helmet immersed in water IAW Section 5.2 for 2-4 hours prior to ballistic testing.

Test Round Used:

NIJ 0108.01 .44 Magnum 240 gr. LSWCGC bullet @ NIJ 0108.01 Level IIIA velocity of 1450 +/- 50 fps

Impact Locations:

Sagittal Penetration Test Headform

Shot No. 1: Front (65mm from edge): Impact ≤ 9cm (3.5") above the basic plane and ≤ 5cm (2.0") from the mid-sagittal plane
 Shot No. 2: Back (75mm from edge): Impact within the area diametrically opposite the front impact area (Shot 1)

Coronal Penetration Test Headform

Shot No. 3: Left Side: Impact ≤ 5cm (2.0") above the basic plane and ≤ 7.5cm (3.0") from the coronal plane
 Shot No. 4: Right Side: Impact ≤ 5cm (2.0") above the basic plane and ≤ 7.5cm (3.0") from the coronal plane

Test Results / Remarks / Notes:

Shot No. 1: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
 Shot No. 2: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
 Shot No. 3: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
 Shot No. 4: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet

Sample Tested:

Manufacturer: Jiangxi Great Wall Protect, Ltd.
 Model No.: N/A
 Size: L
 Weight (lbs.): 3.17
 Helmet ID: N/A
 Serial No.: 3
 Threat Level: IIIA

OFFICIAL NTS TEST CERTIFICATE

Wilson / Nold



NTS

Matt Lutz
 Matt Lutz
 Division Manager

NATIONAL TECHNICAL SYSTEMS
NIJ 0106.01 HELMET
BALLISTIC PENETRATION TEST

Date Received: 08/08/17
 Via: UPS
 Returned Via: UPS

Record No.: JGW17001-10
 Test Date: 08/10/17
 Customer: Jiangxi Great Wall Protect, Lt

Test Conditions

Temperature: 72 °F
 Humidity: 45 %
 Test Spec.: Modified/Abbreviated NIJ Standard 0106.01 for Ballistic Helmets
 December 1981
 Threat Level: IIIA
 Conditioning: Wet

Range 3

Muzzle to Screen 1: 5.70 ft.
 Screen 1 - 2: 5.00 ft.
 Screen 2 - Target: 5.70 ft.
 Midpoint to Target: 8.20 ft.
 Target to Witness: 0.25 ft.
 Headform Size: 7 1/4
 Witness Plate: 2024-T3 Alum.
 Barrel Length: 10 in.

Sample Description			Test / Ammunition Description				Chronograph		Test Results	
Helmet ID	Helmet Serial Number	Helmet Size	Shot No.	Impact Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME s±s	VELOCITY fps	Penetration No Penetration
N/A	4	L	1	Front	0°	44 Mag	240 /LSWCGC	352.8	1417	No Penetration
N/A	4	L	2	Back	0°	44 Mag	240 /LSWCGC	349.4	1431	No Penetration
N/A	4	L	3	Left	0°	44 Mag	240 /LSWCGC	348.4	1435	No Penetration
N/A	4	L	4	Right	0°	44 Mag	240 /LSWCGC	348.5	1435	No Penetration

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Test Round Used:

NIJ 0108.01 .44 Magnum 240 gr. LSWCGC bullet @ NIJ 0108.01 Level IIIA velocity of 1450 +/- 50 fps

Impact Locations:

Sagittal Penetration Test Headform

Shot No. 1: Front (65mm from edge): Impact ≤ 9 cm (3.5") above the basic plane and ≤ 5 cm (2.0") from the mid-sagittal plane

Shot No. 2: Back (75mm from edge): Impact within the area diametrically opposite the front impact area (Shot 1)

Coronal Penetration Test Headform

Shot No. 3: Left Side: Impact ≤ 5 cm (2.0") above the basic plane and ≤ 7.5 cm (3.0") from the coronal plane

Shot No. 4: Right Side: Impact ≤ 5 cm (2.0") above the basic plane and ≤ 7.5 cm (3.0") from the coronal plane

Test Results / Remarks / Notes:

- Shot No. 1: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
- Shot No. 2: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
- Shot No. 3: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet
- Shot No. 4: No Perforation of the helmet; No Perforation of the witness plate by any part of the test specimen or bullet

Sample Tested:

Manufacturer: Jiangxi Great Wall Protect, Ltd.
 Model No.: N/A
 Size: L
 Weight (lbs.): 3.16
 Helmet ID: N/A
 Serial No.: 4
 Threat Level: IIIA

OFFICIAL NTS TEST CERTIFICATE



NTS

Matthew Lutz

Matt Lutz
 Division Manager

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