

TEST REPORT

2022CO6146

DATE OF RECEPTION

14/07/2022

DATE TESTS

Starting: 17/07/2022

Ending: 18/07/2022

APPLICANT

Armory OÜ
Veerenni 24
ES-10135 Tallinn (Cáceres)
Estonia

Att. Brendon Tiik

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCE	REFERENCE PROVIDED BY THE CUSTOMER	DESCRIPTION
2022CO6146-S01	HELMET Model nr: H05_G_L	HELMET Model nr: H05_G_L

TESTS CARRIED OUT

- BALLISTIC RREISTANCE TEST.

Tests marked with * are not included within the scope of the ENAC accreditation.





SAMPLE/S DESCRIPTION

Reference

2022CO6146-S01





RESULTS

BALLISTIC RESISTANCE TEST

Standard

NIJ 0106.01 Point 5.2.

Standard deviation

Test method according to NIJ 0106.01 for penetration test but modified according to the client: the complete test for classification is not carried out, only one helmet is tested with 5 rounds in dry conditions with the ammunition .44 MAG at velocity 436 m/s. It is tested on a test headform filled with plastiline for measuring the BFS.

Classification level

Apparatus

Shooting range 13037IE12

Reference

2022CO6146-S01

Sample description

Complete helmet in green colour, including damping system, harness and external accessories. It is 1586 g weight and 8.8 mm thick. According to its label, it is L size. AITEX does not know the exact composition of the sample.

Sample conditioned

More than 24 h in test conditions

Pretreatment

Velocity measurement

The velocity measurement is done by light barriers (13037/26) and by radar (13037/10). The velocity in the impact point is shown in the table of results measured by the optical barriers.

Handload velocity test

OK

Impacts position

According to the standard NIJ 0106.01 and one additional shot on the crown area.

Test shot distance

5 m

Strapping arrangement

Held to the headform by the harnesses.

Requirements

Penetration by any fair hit shall constitute a failure.

Test date

17/07/2022 - 18/07/2022

Test conditions

21.5°C / 50.3% H.R.

Roma #1 Plastiline Calibration

According to point 9.3.4 from document HPW-TP-0401.01B: 22.5 mm

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Results

Caliber 1

.44 MAG JHP 15.6 g at velocity (436±9.1) m/s

POSITION	ANGLE	VELOCITY	FAIR HIT (Yes/No)	PERFORATION (Yes/No)
Crown	0 °	428,6	Yes	No
Front	0 °	439,0	Yes	No
Back	0 °	434,7	Yes	No
Right	0 °	433,2	Yes	No
Left	0 °	438,3	Yes	No

Test uncertainty

± 1.0 m/s in the velocity measurement and ± 0.2 mm in the trauma measurement

Remark

The BFS for each shot has been:

- On crown area: 12.9 mm
- On front side: 38.2 mm
- On back side: 21.7 mm
- On right side: 16.0 mm
- On left side: 20.2 mm

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Begoña Picó
Head of Public Tenders Division



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