

S.M.S. TESTING

S.M.S. TESTING BALLISTIC R&D TEST SHEET V-0

Client: Dayton Armor
Date: 3/17/2022
Project: R&D

PANEL IDENTIFICATION

Manufacturer: Dayton Armor
Size: MD
Apex Thk.: .91 inch
Description: Hard armor sample

Sample No: DA-RF3-100-2
Weight: 5.69 lbs
Layer count: NA
Technician: Murray

TEST METHOD

Shot Spacing: PER CUSTOMER
Witness Panel: CLAY
Backing Material: 5.5" CLAY/PLYWOOD
Obliquity 0°
Conditioning: DRY

TEST DISTANCE

Muzzle to Target: 17.0 FT
Target to Witness: NA
VS Screens 5
Midpoint to Target: 8.2
VR Screens

Temp: 65.3° F.
BP: 28.79
RH: 45%

AMMUNITION

- 1) 7.62 x63 M2 AP
- 2)
- 3)

LOT # & MANUFACTURER

- 1) MILITARY
- 2)
- 3)

POWDER

- 1) N133
- 2)
- 3)

TEST STANDARD OR PROCEDURE

- 1) 2850+50 fps
- 2)
- 3)

Shot No.	Charge Wt.	Time 1	Velocity 1 (ft/s)	Time 2	Velocity 2 (ft/s)	Velocity Average	Results P / C	Shot Location	Deformation (mm)
1	46.4	0.00173	2885	0.001733	2885	2885	P	APEX	33.6
REMARKS:					MISC. TEST INFORMATION:				
SHOT AS STAND ALONE					Clay Block ID: 2 Clay Drops: 24.3 mm, 25.0 mm, 23.8 mm Clay Temp.: 102.7° F.				

S.M.S. TESTING

S.M.S. TESTING BALLISTIC R&D TEST SHEET V-0

Client: Dayton Armor
Date: 3/11/2022
Project: R&D

PANEL IDENTIFICATION

Manufacturer: Dayton Armor
Size: MD
Apex Thk.: NA
Description: Hard armor sample

Sample No: DA-RF3-100-1
Weight: 5.78 lbs
Layer count: NA
Technician: Murray

TEST METHOD

Shot Spacing: PER CUSTOMER
Witness Panel: CLAY
Backing Material: 5.5" CLAY/PLYWOOD
Obliquity 0°
Conditioning: DRY

TEST DISTANCE

Muzzle to Target: 17.0 FT
Target to Witness: NA
VS Screens 5
Midpoint to Target: 8.2
VR Screens

Temp: 65.3° F.
BP: 28.79
RH: 45%

AMMUNITION

- 1) 7.62 x 63 M2 AP
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TEST STANDARD OR PROCEDURE

- 1) 2850+50 fps
- 2)
- 3)

Shot No.	Charge Wt.	Time 1	Velocity 1 (ft/s)	Time 2	Velocity 2 (ft/s)	Velocity Average	Results P / C	Shot Location	Deformation (mm)
1	46.4	0.00173	2887	0.001732	2887	2887	P	APEX	34.9
REMARKS:					MISC. TEST INFORMATION:				
SHOT AS STAND ALONE					Clay Block ID: 5 Clay Drops: 24.0 mm, 23.8 mm, 24.0 mm Clay Temp.: 102.7° F.				