

Brass Fetcher Ballistic Testing

Exterior Ballistics • Terminal Ballistics

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.38 Special

RBCD 60gr TF/SP

LEGACY DATA

Bare 10% gelatin

Block Calibration : 3.1 ± 0.05 inch penetration @ 588 ± 0.5 ft/sec

Block Calibration temperature : 36.9 ± 0.05 Degrees Fahrenheit

Block Core temperature : 37.7 ± 0.05 Degrees Fahrenheit

Impact Velocity : 1738 ± 0.5 feet/second

Deepest Penetration Depth : 10.2 ± 0.05 Inch

Maximum Crack Diameter : 1.9 ± 0.05 Inch

Max Crack Diameter Location : 1.1 ± 0.05 Inch

Cavitation Depth : $0.0-7.4 \pm 0.05$ Inch

Weapon – Smith and Wesson 642, with 1.9” barrel length

Distance – 10.0 feet, muzzle to gelatin impact face

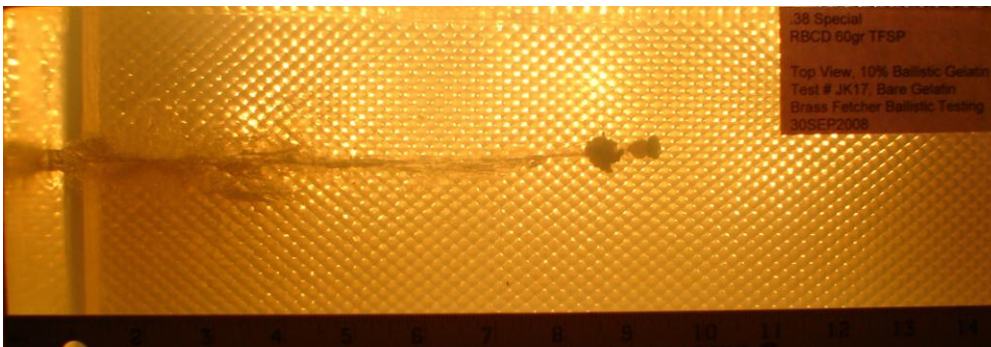
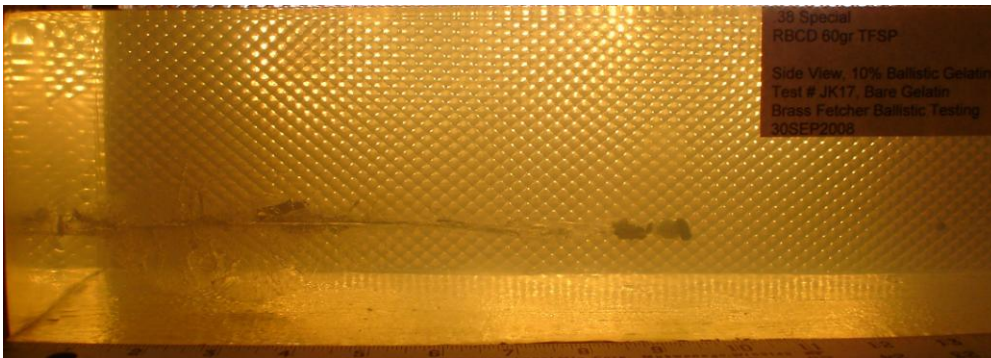
Test site conditions - 67 deg F, 51% relative humidity

Time out of refrigeration prior to shot impact - 4 minutes

Bullet recovered weight – 60.2gr

Bullet recovered average diameter – Jacket = 0.614”; lead core = 0.406”; plastic core = 0.325”

Bullet recovered length – Jacket = 0.279”; lead core = 0.175”; plastic core = 0.266”



Heavy Clothing

Block Calibration : 3.0 ± 0.05 inch penetration @ 577 ± 0.5 ft/sec

Block Calibration temperature : 37.4 ± 0.05 Degrees Fahrenheit

Block Core temperature : 37.6 ± 0.05 Degrees Fahrenheit

Impact Velocity : 1750 ± 0.5 feet/second

Deepest Penetration Depth : 12.0 ± 0.05 Inch

Maximum Crack Diameter : 2.4 ± 0.05 Inch

Max Crack Diameter Location : 2.1 ± 0.05 Inch

Cavitation Depth : $0.0-8.6 \pm 0.05$ Inch

Weapon – Smith and Wesson 642, with 1.9" barrel length

Distance – 10.0 feet, muzzle to gelatin impact face

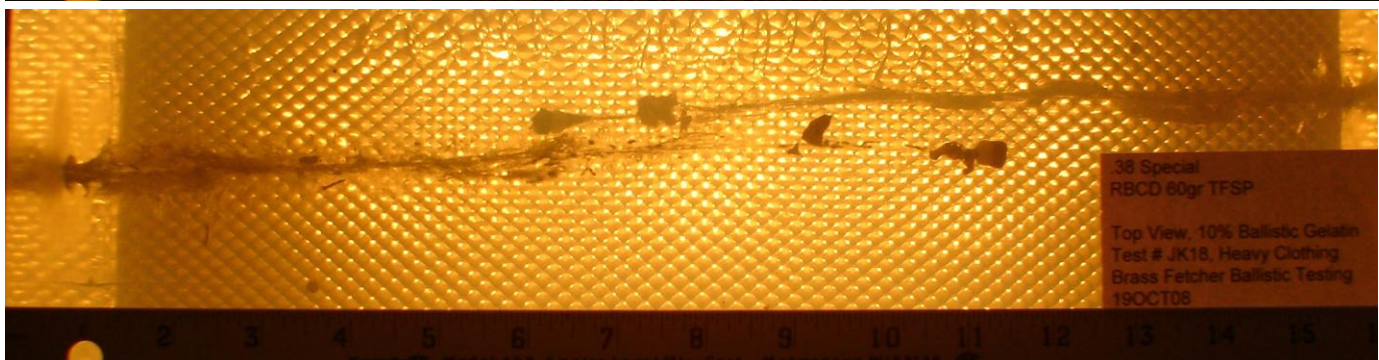
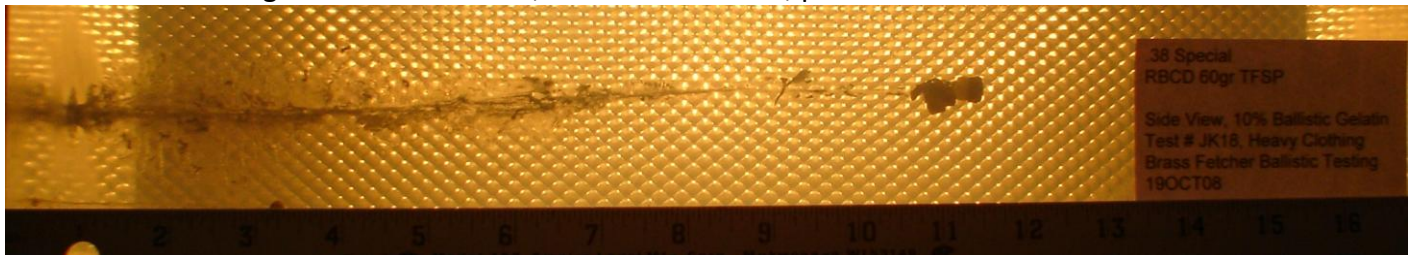
Test site conditions - 70 deg F, 37% relative humidity

Time out of refrigeration prior to shot impact - 6 minutes

Bullet recovered weight – 60.3gr

Bullet recovered average diameter – Jacket = 0.6518"; lead core = 0.365"; plastic core = 0.322"

Bullet recovered length – Jacket = 0.204"; lead core = 0.205"; plastic core = 0.276"



Overpenetration

Block Calibration :

Primary block : 3.3 ± 0.05 inch penetration @ 587 ± 0.5 ft/sec

Secondary block : 3.2 ± 0.05 inch penetration @ 579 ± 0.5 ft/sec

Block Calibration temperature :

Primary block : 36.9 ± 0.05 Degrees Fahrenheit

Secondary block : 37.4 ± 0.05 Degrees Fahrenheit

Block Core temperature :

Primary block : 37.6 ± 0.05 Degrees Fahrenheit

Secondary block : 37.7 ± 0.05 Degrees Fahrenheit

Bullet Performance:

Impact Velocity : 1713 ± 0.5 feet/second

Deepest Penetration Depth : 8.1 ± 0.05 Inch (Secondary block : 0.8 ± 0.05 Inch)

Maximum Crack Diameter : 2.2 ± 0.05 Inch

Max Crack Diameter Location : 3.8 ± 0.05 Inch

Cavitation Depth : $0.0-8.1 \pm 0.05$ Inch

Weapon – Smith and Wesson 642, with 1.9” barrel length

Distance – 10.0 feet, muzzle to gelatin impact face

Test site conditions - 70 deg F, 37% relative humidity

Time out of refrigeration prior to shot impact - 5 minutes

Bullet recovered weight – 58.9gr

Bullet recovered average diameter – Jacket = 0.514”; lead core = 0.356”; plastic core = 0.323”

Bullet recovered length – Jacket = 0.148”; lead core = 0.209”; plastic core = 0.277”

