

ALWAYS
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5.56MM SHORT STOP® SRTA

FRANGIBLE SHORT-RANGE TRAINING AMMUNITION



FEATURES & ADVANTAGES

- > 5.56mm SRTA SHORT STOP® cartridges are fully qualified with General Dynamics Ordnance and Tactical Systems - Canada's proprietary TOXFREE® (lead free) primers
- > Cartridges contain no lead or heavy metals, completely safe for indoor firing ranges and shoot houses with no risk of lead contamination
- > Available in clipped or linked configuration
- > Fully frangible TOXFREE® projectile design allows for engagement on steel targets at an extremely close range with no heavy metal contamination or ricochet
- > 100 meter match engagement range and max range of just 600 meters
- > No weapon conversion necessary
- > 5.56mm SRTA has been fully type classified by the U.S. Army under M1037 designation

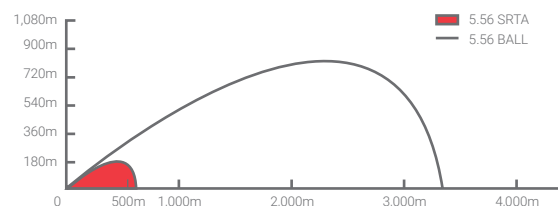


PRIMER AND PROJECTILE
ARE 100% LEAD-FREE

APPLICATIONS

- > Allows for training with rifle calibers on pistol ranges
- > Training in ranges with greatly reduced safety templates
- > Training in indoor ranges where reduced ricochet and splashback is critical

TRAJECTORY ANALYSIS





COMPONENTS*		5.56MM X 45MM SRTA
Projectile mass		2.25g (35grains)
Projectile material		Copper/nylon frangible compound; Projectile may come with or without colored blue tip
Cartridge case		Brass (copper alloy 70/30)
Primer		Boxer type
Propellant		Double-base smokeless powder
BALLISTIC DATA* (FIXED TEST BARREL)		
Maximum range		600m (1,970ft)
Ballistic match		Less than 20cm (8in) difference to MPI at 100m vs conventional ball (+ or – 2mils)
Accuracy (mean radius)		Less than 8cm (3in) mean radius at 100m (328ft)
Velocity at 21°C (70°F)		800m/s (2625ft/s) at 24m (80ft)
Chamber pressure at 21°C (70°F)		270 MPa (39,000 psi)
TERMINAL EFFECT*		
Frangibility		The projectile breaks up and does not perforate a 6.4mm thick (1/4 in) armored steel plate (AR500) when fired perpendicularly at 5m (16ft)
Splashback at 1.2m (48in) from target		None
USE		
General		For use in bolt-action and gas-operated weapons without any modification
Handling		This lethal frangible ammunition requires the same handling and safety precautions as with service ammunition
Firing modes		Single shot, burst and fully-automatic
Noise level		Comparable to service rounds
STORAGE		
Recommended storage		Cool, dry environment
Warranty		One year

* Dimensions, weights and velocities are nominal. Values are dependent on type of weapon, barrel length, rifling, cleanliness, etc.

FRANGIBLE **SHORT-RANGE TRAINING** AMMUNITION



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7.62MM SHORT STOP®

LIMIT YOUR RANGE NOT YOUR TRAINING™

OVERVIEW

Short Stop® Short-Range Training Ammunition (SRTA) rounds are designed for use on ranges where ricochet and stray bullets present a problem. The unique design of the Short Stop® bullet allows it to match the accuracy of conventional ammunition at 100m, while reducing maximum range to 600m. All Short Stop® cartridges feature projectiles produced from a frangible copper-filled polymer, which lowers the danger of ricochet and splashback while eliminating environmental contamination.



The 7.62mm SRTA ball and tracer cartridges are type classified as M973 (ball) and M974 (tracer) by the US DoD.

APPLICATIONS

- > Training in urban areas with greatly reduced safety templates
- > Training on indoor ranges where reduced ricochet is critical
- > Sniper-initiated assault training at facilities using improvised bullet traps
- > Firing off ships at remote targets

BALL AND TRACER SHORT-RANGE TRAINING AMMUNITION

FEATURES AND ADVANTAGES

- > No weapon modifications required
- > Non-toxic projectiles
- > Greatly reduced safety/danger zone; greater training flexibility
- > Excellent accuracy and ballistic match to conventional ammunition at 100m
- > Convoy protection, live-fire training
- > Same recoil, noise level and function as conventional ammunition
- > Frangible projectiles; decreased damage to range infrastructure and targets
- > Surface Danger Zone (SDZ) is approximately 10% of conventional munitions



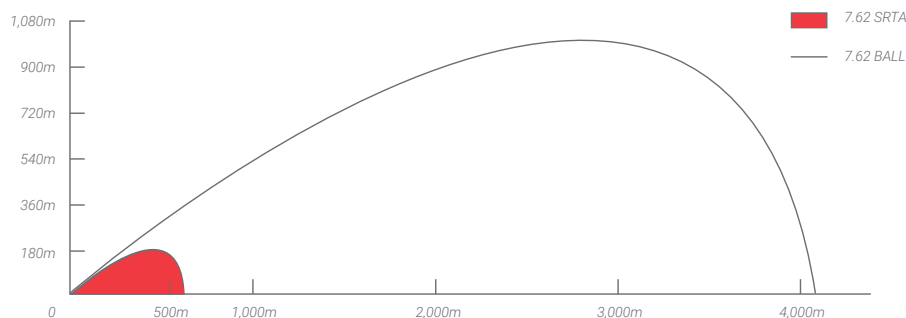
7.62mm Short Stop® Linked



COMPONENTS*		7.62 x 51MM
Projectile mass		4g (62 grains)
Projectile material		Copper/polymer frangible compound
Cartridge case		Brass (copper alloy 70/30)
Primer		Boxer type
Propellant		Single or double-base smokeless powder
BALLISTIC DATA* (FIXED TEST BARREL)		
Maximum range		600m (1,970ft)
Trajectory match		±1mil at 100m (330ft) vs conventional ball
Accuracy (indoors)		10cm (4in) mean radius at 100m (328ft)
Velocity at 21°C (70°F)		800m/s (2,625ft/s) at 24m (80ft)
Chamber pressure at 21°C (70°F)		185 MPa (26,835psi)
TERMINAL EFFECT*		
Frangibility		The projectile breaks up and does not perforate a 9.5mm thick (3/8in) armored steel plate when fired perpendicularly at 5m (16ft)
Splashback at 1.2m (48in) from target		None
Gelatine penetration		Similar to conventional ball
USE		
General		For use in bolt-action and gas-operated weapons without any modification
Handling		This lethal frangible ammunition requires the same handling and safety precautions as with service ammunition
Firing modes		Single shot, burst and fully-automatic
Noise level		Comparable to service rounds
STORAGE		
Recommended storage		Cool, dry environment
Warranty / Shelf Life		One-Year Warranty / Five-Year Shelf Life

* Dimensions, weights and velocities are nominal. Values are dependent on type of weapon, barrel length, rifling, cleanliness, etc.

TRAJECTORY ANALYSIS



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.50 CAL 12.7MM SRTA BALL

SHORT-RANGE TRAINING AMMUNITION

OVERVIEW

General Dynamics Ordnance and Tactical Systems—Canada has more than 100 years experience in the manufacture of small caliber ammunition, including ball, tracer, blank and armor-piercing cartridges. The 0.50 caliber (12.7mm) SRTA Ball ammunition provides limited range training.



The 0.50 caliber SRTA projectile has a frangible copper-polymer blend projectile which significantly reduces the danger of ricochet and splashback while eliminating environmental contamination. It is designed to function in M2HB and QCB machine guns, and most common sniper rifles at extreme temperatures, without any auxiliary equipment or modifications.

The 0.50 caliber SRTA has a maximum range of 700m (765 yd) roughly 10 times shorter than that of conventional service ammunition. This is a major advantage when training near urban areas. Users can fire the 0.50 caliber SRTA safely on 7.62mm ranges due to the reduce range.

FEATURES AND ADVANTAGES

- > Reduces ricochet and splashback
- > Greatly reduces safety/danger zone
- > Provides greater training flexibility
- > Decreased damage to range infrastructure and targets
- > Accuracy and ballistic match with conventional ammunition to 150m
- > Same recoil, noise level and weapon function as conventional ammunition
- > Non-toxic projectiles
- > No weapon modification required





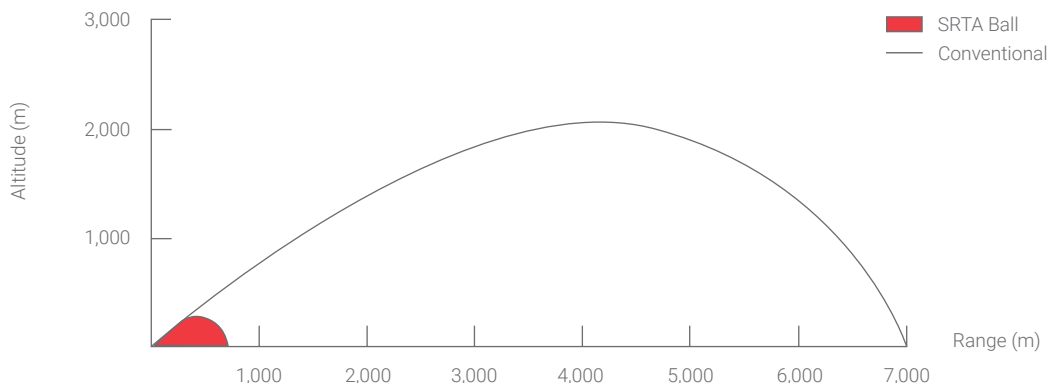
TECHNICAL DATA

Cartridge Length	Approx. 13.7cm (5.4in)
Bullet Weight	Approx. 36g (555 grains)
Projectile Material	Copper/polymer frangible compound
Frangibility	Do not ricochet further than 25m towards the weapon when fired on a steel plate positioned at 50m from the weapon
Conversion	700m (2,297ft)
Noise and Recoil	Replicates service M33 ball ammunition
Accuracy at 150m (164yd)*	30.5cm (12in)
Trajectory Match at 150m (164yd)**	35.56cm (14in)
Max. Chamber Pressure (-20°C, +21°C, +52°C) (-4°F, 70°F, 125°F)	<450 Mpa (65,267psi)
Cyclic Rate in M2 MG	Between 450 and 600 shots/minute

* Average mean radius

** Hor. and vert. MPI vs. conventional ball

TRAJECTORY ANALYSIS



0.50 Cal SRTA Maximum Range Versus Conventional Projectiles

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