

**SIMUNITION®**

# 5.56MM FX® MARKING CARTRIDGE

AS REAL AS YOU CAN GET™

**FX®  
5.56**

Simunition® is the world leader in safe and realistic, interactive, combat training solutions.

The 5.56mm FX® is designed using the Simunition® patented reduced energy technology and works with a Simunition® Certified Conversion Kit, increasing safety and ensuring proper weapon functioning.

## THE 5.56MM FX® MARKING CARTRIDGE HAS MANY IMPRESSIVE FEATURES:

- > Designed for military, law enforcement and approved range programs
- > Non-toxic and non-lethal cartridge
- > Easily washable in cold water
- > Available in red, blue, white and yellow. FX® Non-Marking also available
- > Similar impact penalty as the 9mm FX® Marking cartridge
- > Visible impacts allow accurate assessment of simulated lethality
- > Tactically accurate to 30m (100ft)
- > Convenient for training any time, any place, indoors and outdoors
- > Affordable
- > Used with FX® 9000 series Protective Equipment

## IN ADDITION, THE SIMUNITION® CONVERSION BOLT:

- > User-installed temporary weapon conversion; no tool required
- > Safe design diminishes the possibility of firing lethal ammunition
- > Works with the user's service weapon without adding extra weight
- > Realistic weapon functioning capable of firing in semi-auto and fully-automatic modes

## THE 5.56MM FX® MARKING CARTRIDGE IS IDEAL FOR TRAINING:

- > Reality-based, force-on-force interactive scenarios
- > Force-on-target training; practically anywhere
- > Weapon safety handling training
- > Urban fighting (MOUT/FIBUA)
- > Anti-terrorism
- > Convoy protection tactics
- > Compatible with laser-based training simulators
- > Patrol exercises
- > Close-Quarter Battle (CQB)
- > Shoot/no shoot decisions
- > Individual/team situations
- > Room/building/trench clearing
- > Mission rehearsal



## FX® SCENARIO INSTRUCTOR AND SAFETY CERTIFICATION COURSE

- > Highly qualified professional trainers
- > Courses are offered worldwide. Visit [www.simunition.com](http://www.simunition.com) for more information on on available courses

## COMPONENTS

Designation	FX® Marking Cartridge
Caliber	5.56mm
Projectile mass*	Approx. 0.23g (3.5grains)
Projectile material	Plastic
Cartridge case	Copper alloy
Marking compound	Non-toxic, detergent-based, water-soluble
Marking colors	Red, blue, white and yellow
Primer	Small rifle primer or ToxFree® primer
Propellant	Single or double-base smokeless powder

## BALLISTIC DATA\*

Velocity at 3.5m (12ft): 21°C (70°F)	Approx. 190m/s (623fps); depending on the weapon used
Accuracy at 21°C (70°F)	20cm (8in) at 30m (100ft) shoulder fired, depending on the weapon used
Maximum range (no wind, no elevation)	Approx. 140m (459ft)
Penetration in 20% gelatin at 1m (3ft)	None
Energy at 3.5m (12ft)	Approx. 4.2 joules (3.1ft-lbs)
Ballistic match	Nominal -20cm (-8in) at 30m (100ft) shoulder fired

## TERMINAL EFFECT

Lethality	Non-lethal bruises, welts or scrapes
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## USE

General	For use with Simunition® conversion kit only
Operational temperature range	-8°C (18°F) to +40°C (104°F)
Mandatory Personal Protective Equipment, Simunition® approved	Head, throat, groin and full body covering, including hands
Firing modes	Single shot, burst and fully-automatic

## STORAGE

Recommended storage	Cool, dry environment, 25°C (77°F) max.
Shelf life	Three years, in original packaging
Warranty	One year

## WEAPONS

Beretta SC 70-90, ARX160, IWI Tavor X 95 (5.56mm), M249/Minimi/Mk 46, Colt-style M4/M16, Colt Canada C7/C8, C9, AR-15 Family (with or without Sporter block, H&K G36 Family, FN SCAR (5.56mm), FNC/AK5 Family, SIG 550/551/516/M400, Famas, SA80, L85A2, Steyr AUG, AK47 (5.56mm) Center Firearms, H&K 416, SIG MCX, Steyr (Thales), AK47 (ZASTAVA M21). 5.56mm FX® ammunition is not universal compatible with all weapon platforms. When ordering, it is important to specify which weapon make/model you are ordering for.

\* Dimensions, weights and velocities are nominal. Values are dependent on type of weapon, barrel length, rifling, cleanliness, etc., and shall not be used for lot acceptance.

## GUIDELINES FOR USE:

- Intended only for supervised training conducted in accordance with Simunition® safety training protocols by law enforcement, military and Simunition® approved Commercial Range Programs (in select markets)
- Use only under the direction of a qualified Simunition® Training Safety Officer
- Use only in firearms which have been converted with a Simunition® Conversion Kit
- Users must wear approved FX® Personal Protective Equipment (head, throat and groin protection) and full-body covering, including hands
- Simunition® requires a minimum 1m (3ft) stand-off distance when firing clipped 5.56mm FX® Marking Cartridge at protected personnel and 2m (6ft) for linked 5.56mm FX® Marking Cartridge
- Clearly identify converted weapons with FX® blue tape on the barrel, grip and magazines
- General Dynamics assumes no responsibility for injuries, loss or damage resulting from misuse of this ammunition

SIMUNITION, SAFETY AS THE STANDARD®  
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