

# As real as you can get™

## WITH 5.56 MM FX® MARKING CARTRIDGES

# FX®

# 5.56

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

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



### The 5.56 mm FX® Marking Cartridge has many impressive features:

- Designed for military and law enforcement personnel
- Non-toxic and non-lethal cartridge
- Detergent-based, water-soluble color marking compound
- Available in red, blue, and white
- Similar impact penalty as the 9 mm FX® Marking Cartridge
- Visible impacts allow accurate assessment of simulated lethality
- Tactically accurate to 30 m (100 ft.)
- Reduced noise level, no hearing protection required
- Convenient for training any time, any place, indoors and outdoors
- Affordable
- Distributed worldwide exclusively through the Simunition® network
- Used with FX® 9000 series protective equipment

### In addition, the Simunition® conversion bolt:

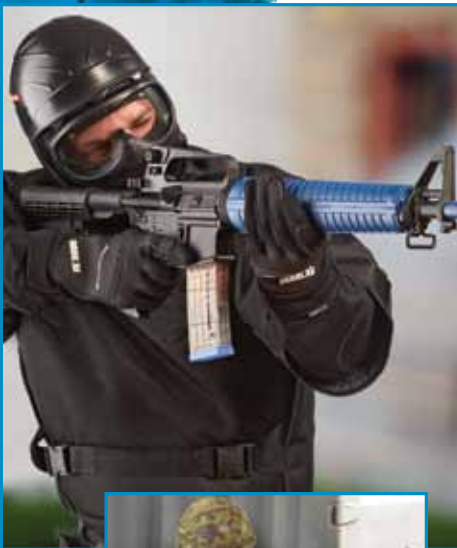
- User-installed temporary weapon conversion; no tool required
- Safe design helps preclude the chambering of lethal ammunition
- Works with the user's service weapon without adding extra weight
- Realistic weapon functioning, capable of firing in semi-auto and fully-automatic modes

### The 5.56 mm FX® Marking Cartridge is ideal for training:

- Reality-based, force-on-force interactive scenario
- 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
- Offered worldwide: check our website at [www.simunition.com](http://www.simunition.com) for more information on available courses



**SIMUNITION®**

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## WITH 5.56 MM FX® MARKING CARTRIDGES

### COMPONENTS

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

### BALLISTIC DATA

Velocity at 3.5 m (12 ft.): 21° C (70° F)	Approx. 200 m/s (650 fps)
Accuracy at 21° C (70° F)	-20 cm (-8 in.) @ 30 m (100 ft.) Shoulder fired
Maximum range	Approx. 200 m (660 ft.)
Penetration in 20% gelatine at 1 m (3 ft.)	None
Energy at 3.5 m (12 ft.)	Approx. 5 joules (3.7 ft.-lbs)
Ballistic match	Max. 21 cm (8 in.) at 30 m (100 ft.) Shoulder fired
Sound level at 1 m (3 ft.)	Approx. 129 DbA (Max peak)

### TERMINAL EFFECT

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

General	For use with Simunition® conversion bolt only
Operational temperature range	-8°C (18° F) to +40° C (104° F)
Mandatory safety equipment	Head, eye, throat and groin protection
Firing modes	Single shot, burst and fully-automatic

### STORAGE

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

### WEAPONS

M249/Minimi/C9/FN Mark 46	Colt-style M4/M16, Colt-Canada C7/C8 Family, AR15 (without sporter block)
H&K G36 Family	FNC/AK5 Family
AR15 (with sporter block)	Sig 550/551
Famas	SA80
Styer	AK 47 (5.56 mm)

### Guidelines for use:

- Intended for law enforcement and military training
- Use only under the direction of a qualified Simunition® training safety officer
- Use only in firearms which have been converted with a Simunition® conversion bolt
- Users must wear approved FX® protective gear (head, throat and groin protection) and full-body covering including hands
- Simunition® requires a minimum 3-foot stand-off distance when firing clipped 5.56 mm FX® Marking Cartridges at protected personnel and 6-foot for linked 5.56 mm FX® Marking Cartridges
- 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

Dimensions, weights and velocities are nominal. US Patent No. 6,625,916 and 6,439,123; European Patent Pending; also Patented or Patents Pending in numerous other countries.

**SIMUNITION**

[www.simunition.com](http://www.simunition.com)

[www.gd-otscanada.com](http://www.gd-otscanada.com)

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