

As real as you can get™

WITH 5.56 MM FX® MARKING CARTRIDGES

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

FX® 5.56

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, law enforcement and approved range program
- Non-toxic and non-lethal cartridge
- Detergent-based, water-soluble color marking compound
- Available in red, blue, white and yellow. FX® Non-Marking also available
- 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.)
- 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 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 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
- Offered worldwide: check our website at www.simunition.com for more information on available courses



As real as you can get™

WITH 5.56 MM FX® MARKING CARTRIDGES

COMPONENTS

Designation	FX® Marking Cartridge
Caliber	5.56 mm / .223 Remington
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 primer or TOXFREE® primer
Propellant	Single or double-base smokeless powder

BALLISTIC DATA

Velocity at 3.5 m (12 ft.): 21° C (70° F)	Approx. 190 m/s (623 fps); weapon dependent
Accuracy at 21° C (70° F)	20 cm (8 in.) at 30 m (100 ft.) Shoulder fired.
Maximum range	Approx. 140 m (460 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	Nominal -21 cm (-8 in.) at 30 m (100 ft.) Shoulder fired.

TERMINAL EFFECT

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

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	Three years in original packaging
Warranty	One year

WEAPONS

Beretta SC 7090; IWI Tavor X 95 (5.56); M249/Minimi/Mark 46; Colt-style M4/M16, Colt Canada C7/C8 Family; AR 15 (with or without sporter block; H&K G 36 Family; FNC/AK5 Family; Sig 550/551/516/M400; Famas; SA80; Steyr; AK 47 (5.56mm)

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 selected 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 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

US Patent no. 6,439,123, 5,677,505 and 5,492,063; European Patent no. 1,313,996; Canadian Patent no. 2,419,861; also Patented or Patents Pending in numerous other countries.

Dimensions, weights and velocities are nominal.

SIMUNITION, Safety as The Standard™

SIMUNITION

www.simunition.com

www.gd-otscanada.com

Trademarks and registered trademarks of General Dynamics Ordnance and Tactical Systems-Canada are denoted by TM and ® respectively.

© 2010 General Dynamics Ordnance and Tactical Systems

Distributed worldwide exclusively through the Simunition® network

Canada (Home office)
GENERAL DYNAMICS
Ordnance and Tactical Systems-Canada
5 Montée des Arsenaux
Repentigny, Québec
Canada J5Z 2P4
Tel.: 1-450-581-5999
Fax: 1-450-581-0231
Management System Certified
ISO 9001, ISO 14001 & OHSAS 18001

USA
GENERAL DYNAMICS
Ordnance and Tactical Systems
Simunition Operations
P.O. Box 576
Avon, CT 06001-0576 USA
Tel. USA only: 1-800-465-8255
Tel.: 1-860-404-0162
Fax: 1-860-404-0169

10-2014