

As real as you can get™

WITH 5.56 MM FX® MARKING CARTRIDGES

HBA
SYSTEM INTEGRATORS
High-tech solutions for defense industries

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 cartridge and works with a conversion bolt, increasing safety and ensuring proper weapon functioning.



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

- Designed for military and law enforcement personnel
- Non-toxic and non-lethal projectile
- Detergent-based, water-soluble color marking compound
- Available in red, blue, and white
- Similar impact penalty as the 9mm 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:

- Comes with a FX® blue tape to ensure safe training
- 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 5.56mm 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 Web site at www.simunition.com



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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	Bright fluorescent in red, blue and white
Primer	Small rifle primer
Propellant	Single or double-base smokeless powder

BALLISTIC DATA

Nominal velocity at 3.5m (12ft.): 21°C (70°F)	Approx. 200 m/s (650 fps)
Accuracy at 21°C (70°F)	Max. 15 cm (.6 in.) at 10 m (30 ft.), 40 cm (16 in.) at 30 m (100 ft.) Shoulder fired
Maximum range	Approx. 200m (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. 30 cm (12 in.) at 30 m (100 ft.) Shoulder fired
Sound level at 1 m (3 ft.)	Approx. 102 dBA

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

MANDATORY

Shelf life	Eighteen months in original packaging
Recommended storage	Cool, dry environment, 25°C (77°F) max.

WEAPONS

M249/Minimi/C9/FN Mark 46
Colt-style M4/M16, Diemaco C7/C8 Family, AR15 (without sporter block)
H&K G36 Family
FNC/AKS Family
AR15 (with sporter block)
Sig 550/551
Famas (under development)
SA80 (under development)
Styer (under development)
Sig 552 (under development)

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 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 on the magazines
- Simunition[®] 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[®]

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