

**SIMUNITION®**

# 7.62X 51MM FX® MARKING CARTRIDGE

AS REAL AS YOU CAN GET™



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

The 7.62mm FX® Marking Cartridge 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 7.62MM FX® MARKING CARTRIDGE HAS MANY IMPRESSIVE FEATURES:

- > Designed for military, law enforcement and approved range programs
- > Non-toxic and non-lethal cartridge
- > Easily washable with cold water
- > Available in red and blue, 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
- > 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 7.62MM 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 available courses

## COMPONENTS

Designation	FX® Marking Cartridge
Caliber	7.62 x 51mm
Projectile mass*	Approx. 0.4g (6grains)
Projectile material	Plastic
Cartridge case	Aluminum
Marking compound	Non-toxic marking compound washable with cold water
Marking colors	Red and blue
Primer	ToxFree® primer
Propellant	Single or double-base smokeless powder

## BALLISTIC DATA\*

Average muzzle velocity at 21°C (70°F)	Approx. 140-160m/s (459-524fps); depending on the weapon used
Accuracy at 21°C (70°F)	Can achieve 20cm (8in) at 30m (100ft) shoulder fired, depending on the weapon used
Maximum range (no wind, no elevation)	Approx. 150m (492ft)
Penetration in 20% gelatin at 1m (3ft)	None
Energy at 3.5m (12ft)	Approx. 3.9-5 joules
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	Five years, in original packaging
Warranty	One year

## WEAPONS

The ammunition will function (feed and cycle) in a wide variety of converted weapons for most popular law enforcement and military models. Please refer to [www.simunition.com](http://www.simunition.com) for a detailed listing of all available models.

\* Dimensions, weights and velocities are nominal. Values are dependent on type of weapon, barrel length, rifling, cleanliness, 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 7.62mm FX® Marking Cartridge at protected personnel
- 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®  
WWW.SIMUNITION.COM



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