

**SIMUNITION®**

# 9MM FX® GEN 2 MARKING CARTRIDGES

AS REAL AS YOU CAN GET™



FX® – the world's most trusted, interactive combat training system for the ultimate level of realism!

The re-designed 9mm FX® Gen 2 uses the Simunition® patented reduced-energy technology and works with a Simunition® conversion kit, ensuring safe and reliable weapon functioning. Combined with the FX® Personal Protective Equipment and the dynamic Simunition® training classes, these are the four essential components of the FX® training system designed especially for military, law enforcement and approved commercial ranges.

## 9MM FX® GEN 2 PROJECTILE IMPROVEMENTS:

- > Re-designed patented projectile, improving range and accuracy
- > Minimal barrel fouling
- > Improved shelf life
- > Reduced pain penalty
- > Improved long-lasting marking compound with no special packaging

## WHILE MAINTAINING THE SAME ATTRIBUTES AS THE LEGACY 9MM FX®:

- > Non-toxic and non-lethal
- > Easily washable with cold water
- > Visible impacts allow accurate assessment of simulated lethality
- > Convenient for training any time, any place, indoors and outdoors, with our lead free/heavy metal free ammunition
- > No dangerous components in projectile

## THE ADVANTAGES OF SIMUNITION® CONVERSION KITS:

- > Optic-ready pistol conversion kits are now available
- > User-installed temporary weapon conversion; no tools required
- > Safe design diminishes the possibility of firing live lethal ammunition
- > Work with the user's service weapon without adding extra weight
- > Realistic weapon functioning in semi and fully-automatic modes
- > Available for a variety of pistols, grenade launchers, rifles, shotguns and submachine guns

## THE FX® MARKING CARTRIDGES ARE 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 exercises
- > 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	9MM x 19MM FX® GEN 2 MARKING CARTRIDGE
Projectile mass*	0.4g (6grains)
Projectile material	Plastic projectile that deforms upon impact releasing marking compound
Cartridge case	Copper alloy
Sabot	Plastic
Marking compound	Non-toxic marking compound washable in cold water
Marking color	Red, blue, green, yellow, orange and white; non-marking version also available
Primer	Small pistol primer or ToxFree® primer
Propellant	Single or double-base smokeless powder
BALLISTIC DATA*	PISTOL, SMG, RIFLE, SHOTGUN, GRENADE LAUNCHER
Average muzzle velocity at 21°C (70°F)	110-160m/s (360-524fps), depending on weapon
Typical Accuracy* (indoor) at 21°C (70°F)	Pistol, can achieve: 5cm (1.97in) at 7.6m (25ft) Rifle, can achieve: 2cm (0.8in) at 7.6m (25ft)
Maximum range, no wind, no elevation	150m (492ft)
Penetration in 20% synthetic gelatin	None
Impact energy (at 3.5m)	2.4-5 joules
Ballistic match	Mean point of impact 15cm (6in) lower than ball at 7.6m (25ft)
TERMINAL EFFECT	
Lethality	Non-lethal bruises, welts or scrapes
USE	
General	For use with Simunition® Conversion Kit only
Operational temperature range	-8° to 40°C (18° to 104°F)
Mandatory Personal Protective Equipment, Simunition® approved	Head, throat and groin protection
Firing modes	Single shot for pistols; single shot, burst and full automatic for submachine guns
Weapons	The ammunition will function (feed and cycle) in a wide variety of converted weapons for most popular law enforcement and military models. <i>Please refer to <a href="http://www.simunition.com">www.simunition.com</a> for a detailed listing of all available models.</i>
STORAGE	
Recommended storage	Cool, dry environment, 25°C (77°F) max
Shelf life	Five years, in original packaging
Warranty	One year

\* 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
- Clearly identify converted weapons with FX® blue tape on the trigger guard, grip, and on the magazine
- Simunition® recommends a minimum 1ft (30cm) stand-off distance when firing 9mm FX® Marking Cartridges at protected personnel
- Users must wear approved FX® 9000 series Personal Protective Equipment (head, throat and groin protection), full-body covering recommended
- Improper use can cause serious injury or damage
- 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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ISO 9001, ISO 14001 & ISO 45001

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