

**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*  | Approx. 365mg (5.6grains)   |
| 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)<br>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  |
| Trajectory 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.<br><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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