
Simunition® Product Update 2024

SIMUNITION®

GENERAL DYNAMICS
Ordnance and Tactical Systems—Canada



SIMUNITION®

GENERAL DYNAMICS
Ordnance and Tactical Systems

CLEANER THAN CONVENTIONAL BLANKS
PATENTED REDUCED-ENERGY TECHNOLOGY



**Securi
Blank®**

FX®



NON-LETHAL MARKING CARTRIDGES
SAFE AND TACTICALLY ACCURATE
WORLD LEADER IN SAFE & REALISTIC TRAINING

SIMUNITION®

Pioneer and world leader in providing military and law enforcement with the most realistic non-lethal force-on-force, short range, simulation training system



Law enforcement



Military Training video

Effective Solution for Force-on-Force Training

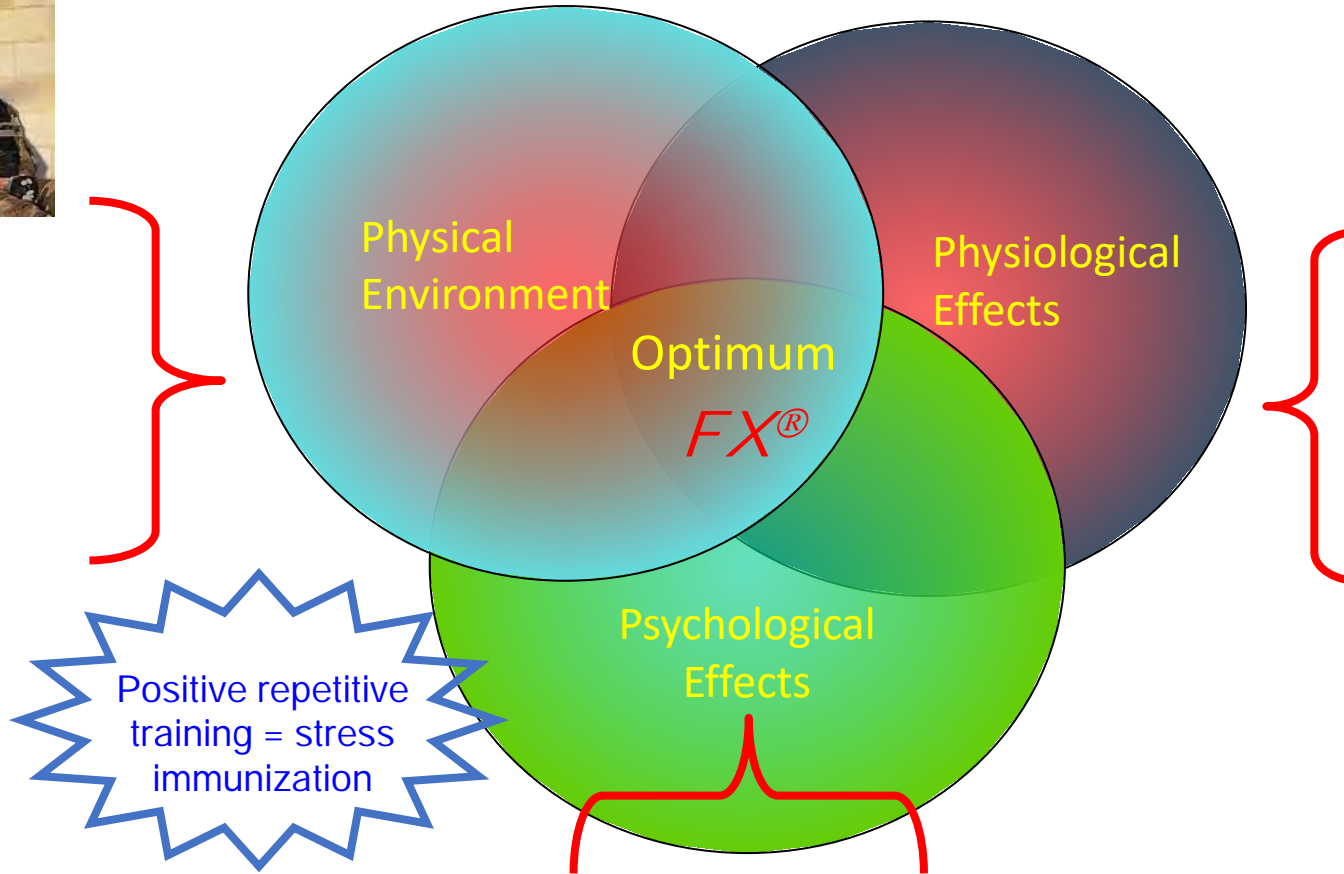


Urban Environment.
Realistic Equipment.
Real weapons,
Realistic TTPs
Etc...



Courtesy: DND

Fatigue,
Cardiac Acceleration,
Perspiration,
Etc...



Positive repetitive training = stress immunization

Stress, tunnel vision, loss of hearing, hormones....



Courtesy: DND



Simunition® System



Ammunition



Conversion Kits



M4/M16/C7/C8/HK416



P320/M17/M18



FN SCAR-L



New 9mm upper kit



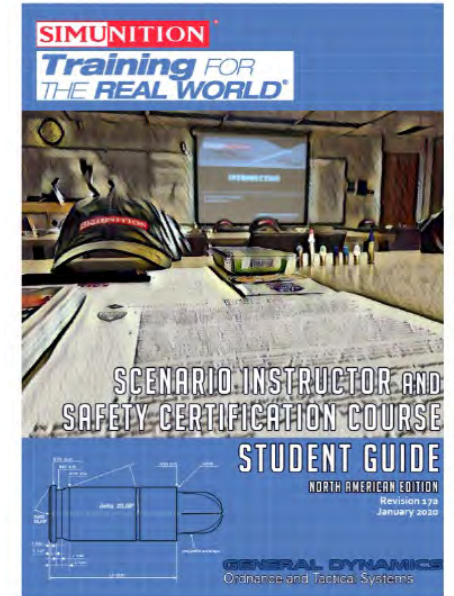
40mm FX/SB



Protective Gear



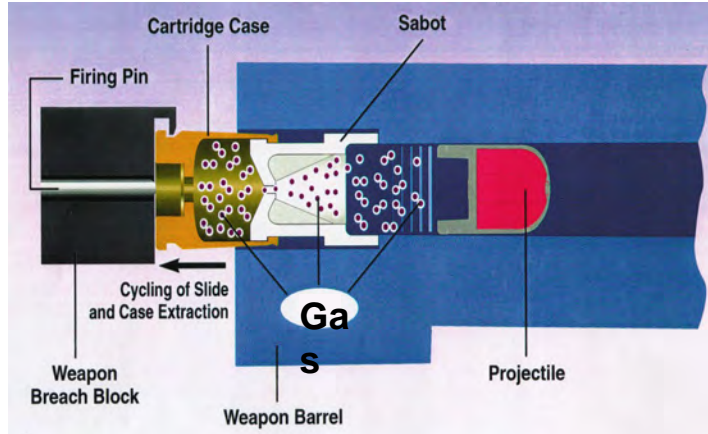
Safety Training





How does a Simunition® round work?

- FX® & SecuriBlank® Cartridges work on direct blowback and not gas return
- Piston action between the sabot and the case that allows the weapon to cycle



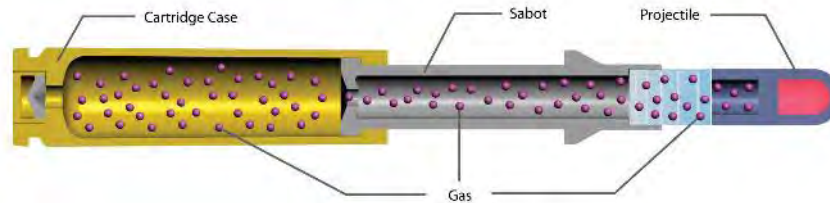
9mm FX® ammunition



9mm FX® video



9mm SB video



5.56mm FX® ammunition

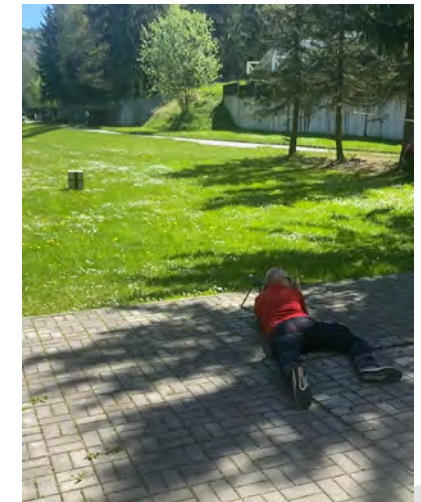


5.56mm FX® video

Simunition® Marking Ammunition

SIMUNITION®

- 9mm FX® available in 6 colors
- 5.56mm FX® available in 4 colors
- FX® Marking Cartridges creates reality-based, force-on-force training opportunities:
 - Room/Compound clearing
 - Urban fighting (FIBUA)
 - VIP protection
 - Shoot/No-shoot decisions
 - Geronimo (OPFOR) Weapon Systems
 - Dismounted patrolling
 - Counter-Ambush training
 - Partner Force Training



Simunition® Non-Marking Ammunition

SIMUNITION®

- Available in both 9mm and 5.56mm
- Training venues where marking rounds are not allowed:
 - To not mark walls, furniture etc.
- In sensitive areas such as:
 - School
 - Embassy
 - Airport
- Very useful for short quick training exercises:
 - Faster clean up
 - Reduced pain penalty



Simunition® SecuriBlank® Ammunition

SIMUNITION®

Available in 9mm and 5.56mm & both Loud & Quiet

- Loud:
 - Safer blank round for indoor training
 - K-9 Training
 - No BFAs
 - Realistic recoil and noise

- Quiet:
 - No flash or noise; only signature of weapon cycling
 - No unburnt propellant
 - Realistic recoil

- 9mm inert round (dummy round)
 - Bright orange for easy identification
 - Can be used to introduce weapon stoppages
 - Can be used for classroom training



9mm SecuriBlank® video



5.56mm SecuriBlank® video



9mm SecuriBlank® Quiet training video

Simunition[®] Conversion Kits

Different types of Conversion Kits

SIMUNITION®


9mm FX® Pistol Conversion kit & Optic Ready Solutions



5.56mm FX® AR family conversion bolt



M249/Minimi Conversion Kit



FN SCAR-L



12ga shot gun kit & 40mm Grenade Launcher Conversion kit



9mm FX® Upper Receiver Conversion kit

Different types of Conversion Kits

SIMUNITION®

- SIG MCX rattler .300BLK family:
 - 9mm FX[®]/SB option
 - 5.56mm FX[®]/SB option
- SIG MPX 9mm submachine gun
- H&K MP7 Conversion kit:
 - requires weapon modification
 - Dedicated weapon also available
- OPFOR AK47 upper conversion kit:
 - fires 9mm FX[®]/SB
 - requires AR style lower



5.56 FX[®] kit for .300BLK MCX Rattler



9mm FX[®] kit for .300BLK MCX Rattler



MP7



OPFOR AK47 Upper Conversion kit

Conversion Kits: .300BLK, MP7, MCX

SIMUNITION[®]

Video 5.56mm FX[®] kit for .300BLK weapon



Video 9mm FX[®] MP7 kit



9mm FX[®] kit for .300BLK weapon

New Conversion Kits

SIMUNITION®

- Simunition® barrel for Glock 17T
 - For existing UTM blue guns
 - Gen 5: P/N 5316420
 - Gen 3&4: P/N 5316320
- Shadow System DR920 kit
 - P/N 5316430
- New blue upper receiver
 - 9mm FX®/SB option
 - 5.56mm FX®/SB option
 - All blue color
 - M-LOK handguard



Simunition G17T barrel



Sim G17T video



Shadow System DR920 Pistol kit



New blue upper receiver kit w/ M-LOK

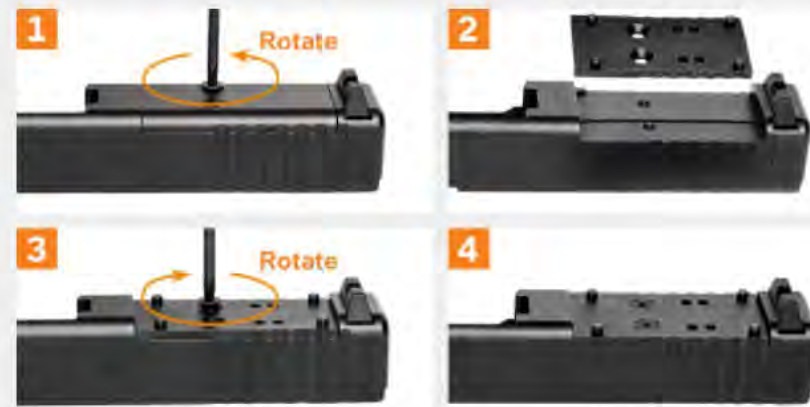
Optic Ready Conversion kit Info

SIMUNITION

- Optic Ready Kits: slides milled for Glock MOS plates
 - Recommend that user buys universal Glock plates



Standard MOS Configuration



Step 1: Remove the GLOCK Cover plate first.

Step 2: Select the appropriate GLOCK MOS Adapter plate, place it in the correct position and orientation.

Step 3: Tighten the 2 Torx[®] screws to fix the GLOCK MOS Adapter plate on your GLOCK MOS Pistol.

Step 4: When the GLOCK MOS Adapter plate is completely mounted on your GLOCK MOS Pistol install the optical system according to the directions of the manufacturer.

Simunition[®]

Personal Protective Equipment

Protective Equipment



PERSONAL PROTECTIVE EQUIPMENT

FX[®]

1 HEAD PROTECTOR
MANDATORY WITH FX[®]

2 NECK PROTECTOR
MANDATORY WITH FX[®]

3

4

5

6

7 GROIN PROTECTOR
MANDATORY WITH FX[®]

8

SIMUNITION GENERAL DYNAMICS
Ordnance and Tactical Systems

Helmet Head Protector (HHP)

SIMUNITION®

- Mandatory for training
- Only available in Black
- 9003 available until supplies last

9004 Helmet Head Protector (HHP)

SIMUNITION®

Benefits and Advantages:

The FX® 9004 Helmet Head Protector has been optimized for:

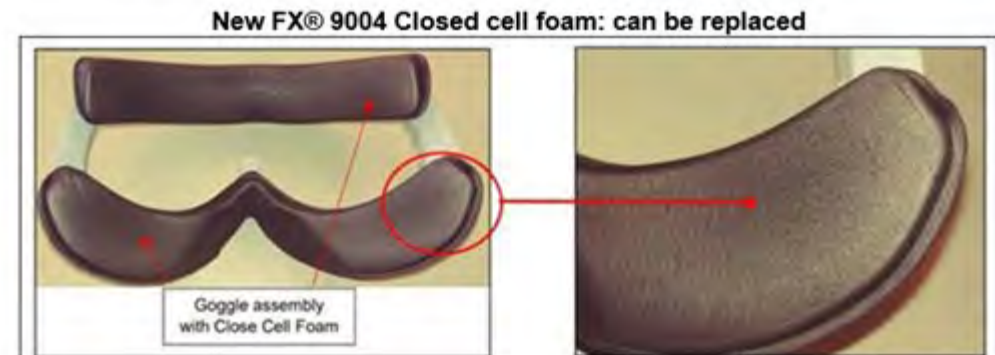
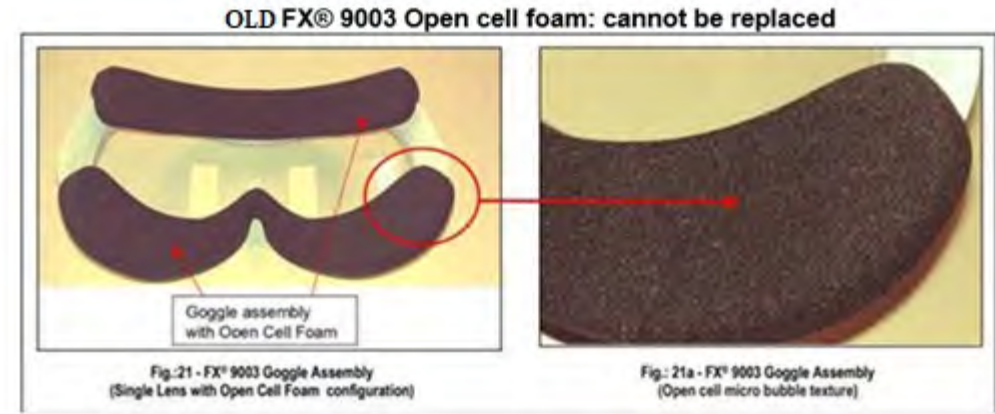
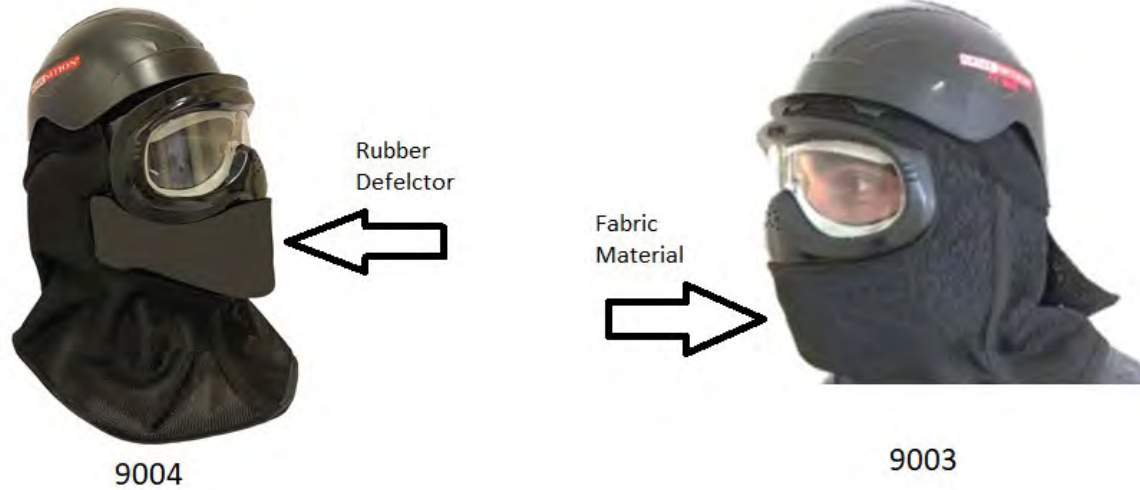
- Improved anti-fog performance
- Improved cheek weld for target aiming
- Replaceable closed cell foam inserts
- Easier to clean

- Same goggle assembly as 9003:
 - Lens meets impact resistance testing according to EN166, Z87.1 and MIL-PRF-32382 requirements.
 - Lens meets anti-fog and anti-scratch resistance according to EN166 requirements.



P/N 8972264

9004 Helmet Head Protector (HHP)



Available as a spart part

NEW



MANDATORY EQUIPMENT

FX® 9000 THROAT COLLAR (OSFA)



FX® 9000 SLEEVES



FX® 9000 VEST



FX® 9000 GLOVES



FX® 9000 ARM PROTECTORS



Male

Female

MANDATORY EQUIPMENT

FX® 9000 GROIN PROTECTORS



FX® 9000 PANTS

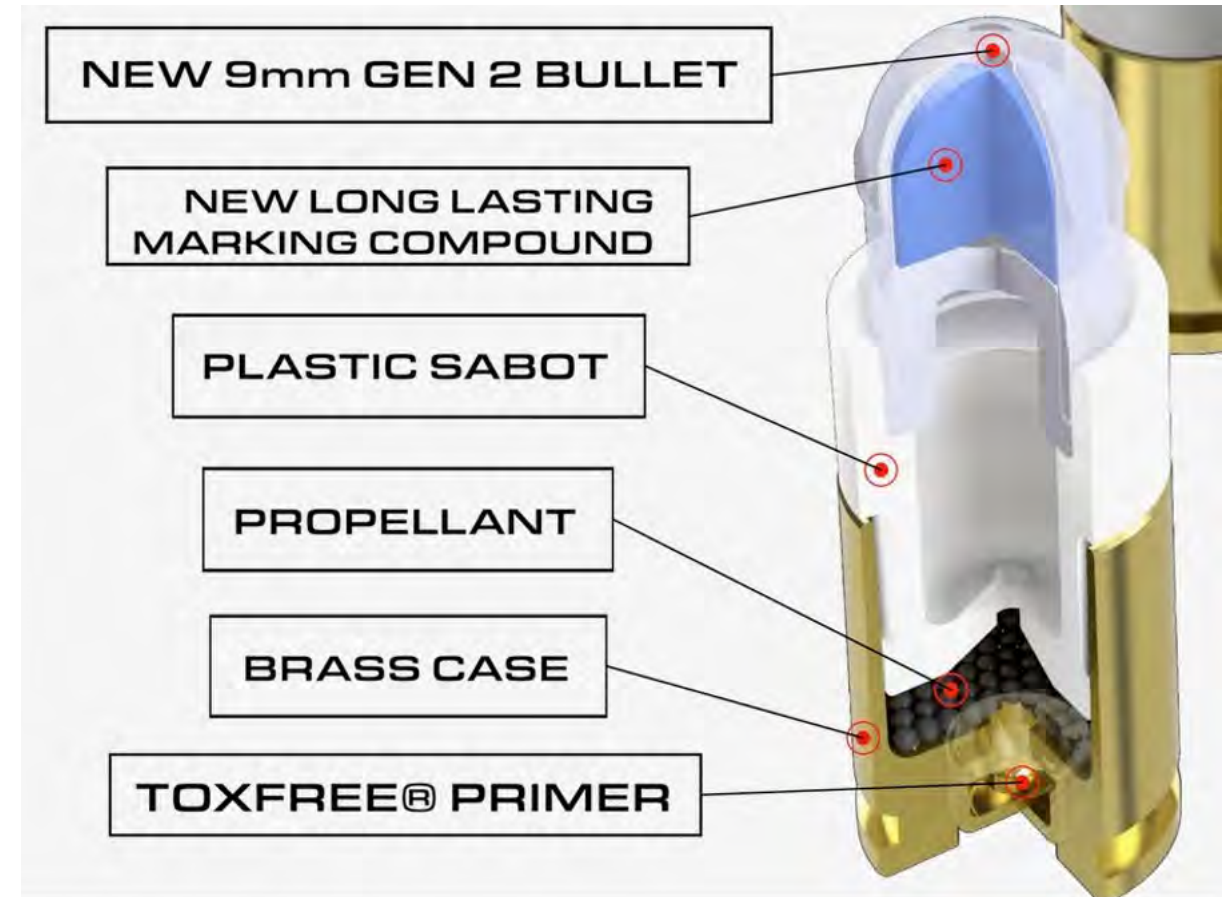
New Ammunition

New 9mm FX[®] Gen 2

SIMUNITION[®]

NEW SIMUNITION[®] FX[®] Bullet & Marking Compound

- Improved 9mm FX[®] Gen 2 bullet:
 - Negligible barrel fouling
 - Improved accuracy
 - Reduced pain penalty
- Improved marking compound:
 - Extended shelf life
 - Does not dry out
 - More stable across temperature range
 - Improved accuracy
- Features carried over from Gen 1 FX[®] bullet:
 - Mushrooming bullet distributes impact energy
 - Good marking performance on various surfaces
 - Similar velocities to Gen 1

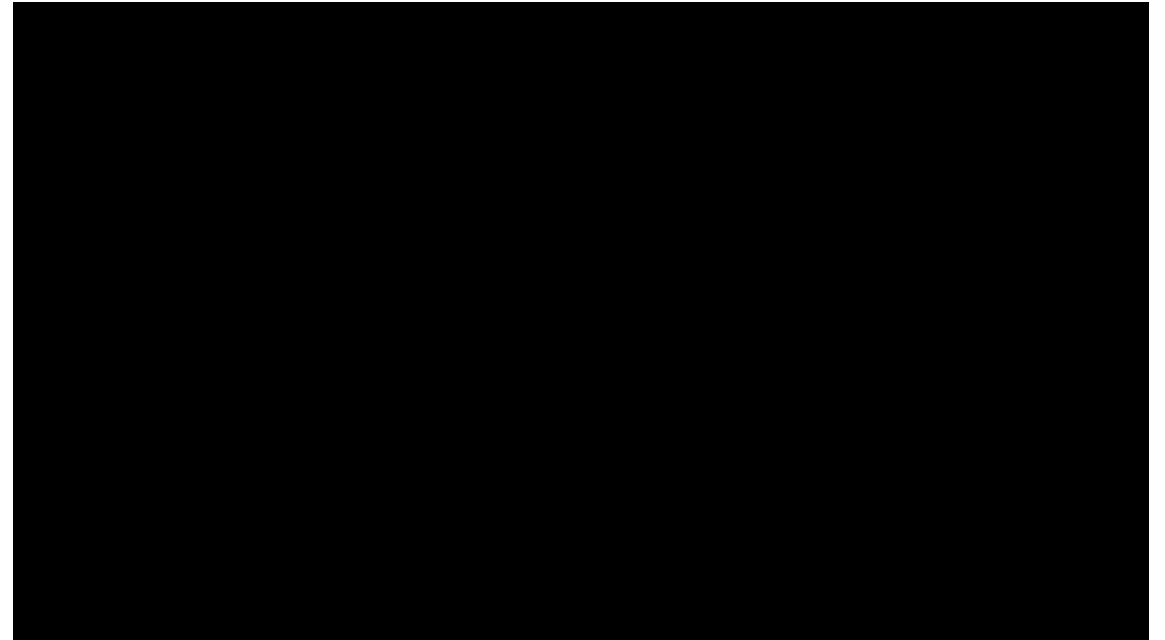
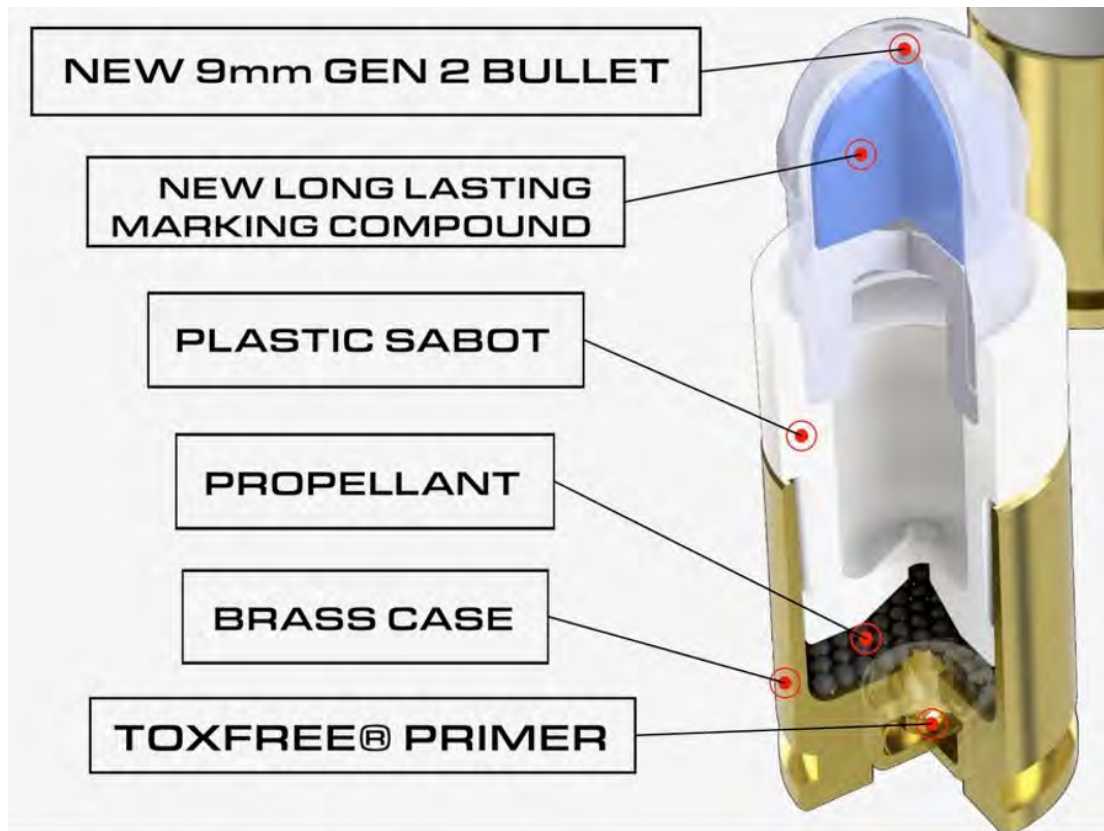


Available in both Marking and Non-Marking

New 9mm FX[®] Gen 2

SIMUNITION[®]

NEW SIMUNITION[®] 9mm FX[®] Gen 2 Ammunition



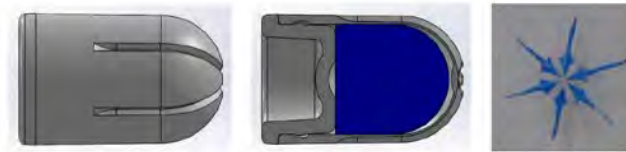
9mm FX Gen 2 video

9mm FX[®] Gen 1 vs. Gen 2

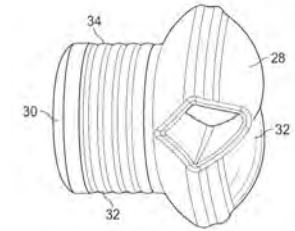
SIMUNITION[®]

- 9mm FX[®] Gen 2 improvements:
 - Re-designed bullet geometry
 - Reduced fouling & improved accuracy
- Common Parts to Gen 1 cartridge:
 - Same Brass Case
 - Same Plastic Sabot
 - Same Energetics (primer & propellant)

Current 9mm FX[®] PROJECTILE



9mm FX[®] GEN 2 PROJECTILE



Gen 1 after 500rds



Gen 2 after 500rds



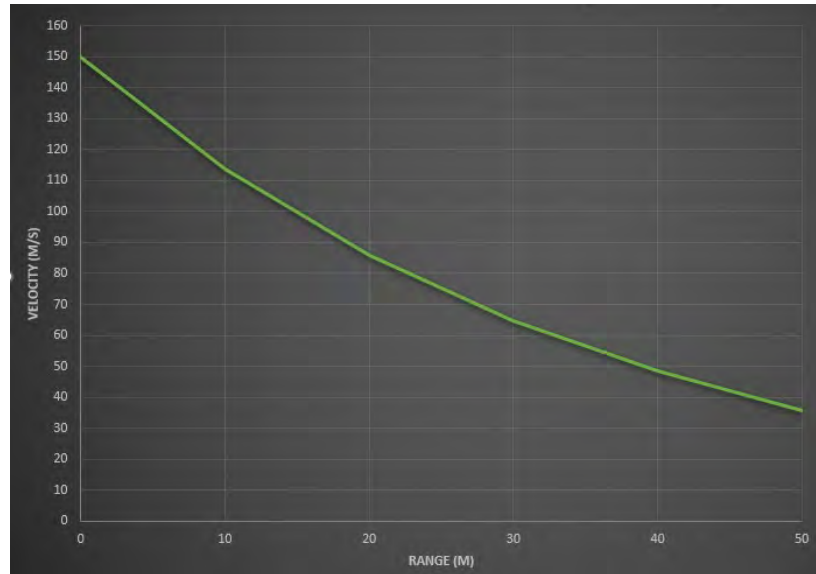
9mm FX[®] Gen 2 impact video



New 7.62 x 51mm FX[®] & SecuriBlank[®]

SIMUNITION[®]

- Uses new 9mm FX[®] Gen 2 bullet
 - Negligible barrel fouling
 - New long lasting marking compound
 - Similar impact energy density to 9mm FX[®]
 - Similar velocities to 9mm FX[®] with upper kit
 - Avg. 140-160m/s (weapon, barrel dependent)
 - Max spread 30cm @ 30m



Decrease in velocity over distance



HK 417 rifle & conversion kit



FN SCAR-H rifle & conversion kit



New 7.62 x 51mm FX[®] & SecuriBlank[®]

SIMUNITION[®]

Weapons pending qualification:

- AR10
- SIG SAUER 716
- Colt C20
- New SAKO 7.62 platform
- Knights Armaments SR25
- Daniel Defence DD5
- H&K G3



H&K G3 video



SR25

Knight's Armament SR25 rifle



COLT C20

Colt C20 rifle



7.62x51 mm

New SAKO 7.62 rifle



H&K G3

H&K G3 rifle

Simunition® 7.62 x 39mm Development

SIMUNITION®

- Uses new 9mm FX® Gen 2 bullet
 - Negligible barrel fouling
 - New long lasting marking compound
 - Similar impact energy density to 9mm FX®
 - Similar velocities to 9mm FX® with upper kit
 - Avg. 140-160m/s (weapon, barrel dependent)
 - Max spread 30cm @ 30m



AK47 Drop-in kit & Magazine



AK47 video



7.62 x 39 FX/SB

Simunition® Training Courses



- For Law Enforcement, Military and Range Programs.
- Teaches how to use Simunition® Products safely; not tactics or tactical training.
- Taught by highly qualified professionals with extensive Military and/or LE experience.
- Michael Schultz – US Training Division: michael.schultz@gd-ots.com
- Craig Runyan – International Training: craig.runyan@gd-ots.com
- Please refer to our website for more information:
 - [Training Course/United States – Simunition](#)
 - [Training Course/All other Countries - Simunition](#)

Simunition® Website

- Simunition® Product Catalogue is a great reference
- Simunition® Website: MKT Brochures, MSDS, etc.
- Simunition® Extranet also has additional resources on our products:
 - Tech. info sheets, ISO certificates, exploded views
 - Price List
 - If you don't have your login credentials, please contact:
 - Louise-Andrée for Canada & International: louiseandree.gagnon@gd-ots.com
 - Marianne for USA: simusa@gd-ots.com



ALWAYS
ON target®



Frangible Ammunition (no copper jacket)

ALWAYS
ON *target*[®]

Advantages of Reduced Range / Short-Range Training Ammunition :

- Reduced environmental impact
- Provides greater range of movement (360 degrees)
- Significantly reduced splash back risks at very close ranges
- Multiple small arms platforms (5.56mm, 7.62mm and 12.7mm) can be used in same collective training event.
- No weapons modifications or recoil amplifiers are needed to fire the Frangible Ammunition.



Frangible Ammunition – Greenshield®

// General Dynamics-OTS Canada PROPRIETARY //

ALWAYS
ON target®

- 9mm x 19 with 6.5g bullet (100gr)
- 5.56mm x 45 with 2.9g bullet (45gr)
- Heavy Metal Free primer
- Can be considered reduced range ammunition
- Typical Accuracy:
 - 13cm (5") @ 25m
 - 10 cm (4") @ 100m

NON-TOXIC BULLET



Polymer Bullet

NO RICOCHET



Breaks up even at oblique angles

NO SPLASHBACK



No fragments back at shooter

NO BULLET



Just an inert dust residue



THE GREENSHIELD® CARTRIDGE IS IDEAL FOR TRAINING

- > Indoor or Outdoor Ranges
- > Enclosed spaces
- > Close-range shooting drills using steel targets
- > MOUT or FIBUA buildings



Frangible Ammunition – Greenshield®

// General Dynamics-OTS Canada PROPRIETARY //

ALWAYS
ON **target**®

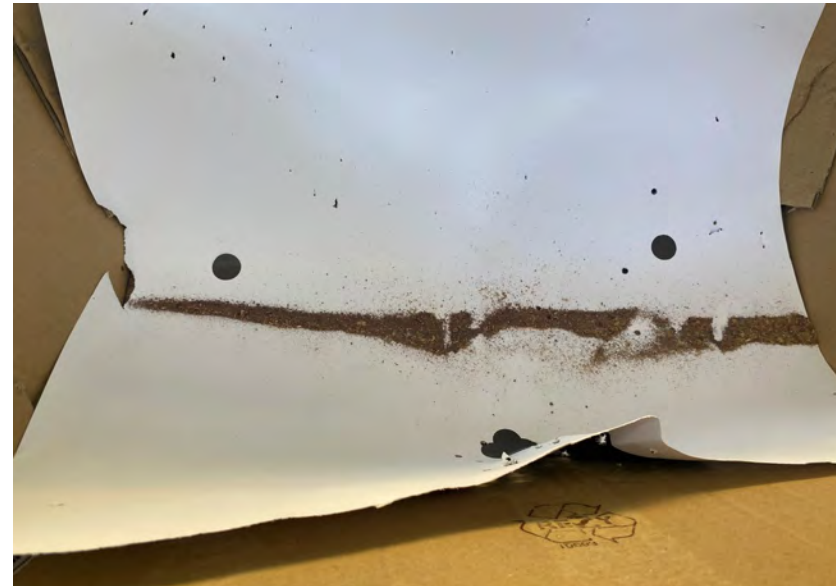


9mm Greenshield® video

9mm Frangible Ammunition – Greenshield®

// General Dynamics-OTS Canada PROPRIETARY //

ALWAYS
ON target®



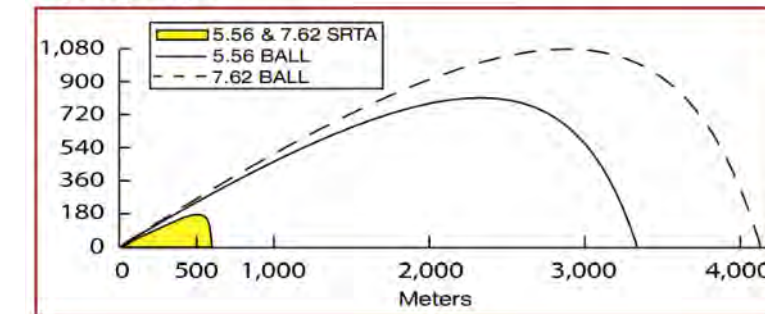
9mm Greenshield® particles after firing

Frangible Ammunition – SHORT STOP[®]

Short Range Training Ammunition



Trajectory analysis



5.56mm x 45 SRTA
Max Range 600m
Trajectory Match to
100m within ± 2.5 mils

7.62mm x 51 SRTA
Max Range 600m
Trajectory Match to
100m within ± 1 mils

12.7mm x 99 SRTA
Max Range 700m
Trajectory Match to
150m within ± 2.4 mils

SIMUNITION

Training FOR
THE **REAL WORLD**

