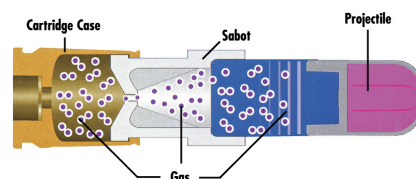




9mm FX® Marking Cartridges

Physical description of item: The 9mm FX® Marking Cartridge is composed of a brass cartridge case, propellant, percussion primer, plastic sabot and a deforming plastic projectile filed with a detergent based marking solution.



Functional description of item: In order to function, the reduced energy 9mm FX® Marking Cartridge needs to be used in conjunction with a Simunition® certified conversion kit. This conversion kit functions from a straight blow back principle and by-passes the normal operation mode of the weapon. Upon primer and propellant initiation, pressure builds inside the casing as it is sealed by the choke hole and expands the plastic telescopic sabot. The expansion of the telescopic sabot initiates a rearward motion of the cartridge case which pushes against the face of the Simunition® conversion kit bolt face thus cycling the weapon (ejecting the spent cartridge and feeding a new 9mm FX® Marking Cartridge in the chamber). Almost simultaneously, as pressure builds between the cartridge case and the sabot, the pressure from the hot gases perforate the choke hole at the base of the sabot and the resulting pressure is released through the choke hole and sabot pushing the projectile through the Simunition® conversion kit barrel.

Designation	FX 9mm Red Marking
National Stock Number	FX 9mm Red Marking / 1305-01-439-9717/ DODIC AA12 FX 9mm Blue Marking / 1305-01-4493208 / DODIC AA21
Calibre	9mm (projectile 7.62mm)
Projectile Mass	0.5g (nominal)
Projectile Material	Marking compound encapsulated in plastic shell
Marking Compound	Non-Toxic, detergent-based water-soluble
Projectile Velocity	110-170 m/s (nominal) at 3.5m depending on weapon used
Max Range	Less than 200m
Ballistic Match	Max spread of 15cm at 7.6m
Cartridge Case	Copper Alloy
Sabot material	Plastic
Size of unpacked item	28 mm (nominal)
Weight of unpackaged item	4.5 grams (nominal)
Net Explosive Weight (1000 rds)	NEQ = 0.038 kg, NEQ (Air) = 4.6 kg
Primer	Small Pistol (ToxFree® primers available)
Primer charge weight/type	20 milligrams (nominal)/ CCI 500
Primer sensitivity	Meets SAAMI sensitivity requirements
Propellant charge weight/type	15.5 milligrams (nominal)/ WPR 289
Max Peek Chamber Pressure	8 000 – 10 000 PSI
Operating Temperatures	-8°C to +40°C
Sound level (1m)	Approx. 136 dB (peak pressure, nominal)
Warranty / Shelf Life	1 year / 3 years in original packaging
Optimum Storage Conditions	Cool Dry Environment,
Commercial Packaging	50 rds trays, 1 tray/box, 20 boxes/case, 1 000 rds per case.
Demil/disposition instructions	Same as conventional small caliber
SAAMI Standards	Reduced Energy Cartridges such as 9mm FX are not designed to meet SAAMI standards due to their specific nature. Only primer sensitivity is designed to meet SAAMI Standards.

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