



5.56 MM REDUCED RANGE TRAINING AMMUNITION (RRTA)

Improved training outcomes



The RRTA is fully functional in standard unmodified ADF and LE weapons platforms

COMPARISON OF F1 AND RRTA BUILDS

Cartridge components	Current in-service Cartridge 5.56 mm Ball F1	Cartridge 5.56 mm Ball RRTA
Cartridge Case	F1 cartridge case	F1 cartridge case
Primer	Approved F1 primer, staked with primer pocket sealant	Lead-free primer, staked with primer pocket sealant
Propellant	AR2210 – CW adjusted to provide MV specified	AR2210 – CW adjusted to provide MV required for ballistic match
Case mouth lacquer	Current F1 approved	Current F1 approved or NIL (as required for desired training outcome)
Projectile	Current F1 Ball SS109-type	COTS round nose lead-free copper based frangible

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IN THE BATTLE SINCE 1888

COMPARISON OF F1 AND RRTA PERFORMANCE

	Cart 5.56 mm Ball F1	Cart 5.56 mm Ball RRTA
V24 (m/s)	~915 m/s	Tailored to match F1
Chamber pressure (MPa)	<405 MPa max	<405 MPa max (~242 MPa recorded)
Port pressure (MPa)	Sufficient to cycle 5.56 mm weapons suite	
Dispersion at 100 m (MoA)	~2 MoA	~1.3 MoA
Dispersion at 100 m		
Mean point of impact relative to F1 at 100 m	N/A	<1.0 MoA offset note: 1 MOA = ~27 mm
Case dimensions	NATO MOPI compliant	NATO MOPI compliant

Australian Munitions 5.56 mm Ball Reduced Range Training Ammunition (RRTA) is trajectory matched to current in-service operational ammunition up to a range of 300 m or more. The RRTA offers no splash back and reduced ricochet – the frangible projectile turns to dust upon impact with hard surfaces such as metal targets and snail-trap bullet catchers.

SPECIAL FEATURES

The RRTA is a member of the 5.56 mm family of ammunition. All family ammunition natures are manufactured at the Commonwealth owned Benalla and Mulwala factories, using standardised components including the cartridge case, scalable propellants and common operating procedures and factory equipment. Each family ammunition nature possesses a unique projectile tailored to provide the exact flight and terminal ballistics required by the domestic counter terrorism and law enforcement operators. Use of common components and factory equipment minimises the unit price and maximises usage of the Commonwealth owned factories.

The RRTA uses a lead-free copper-polymer frangible projectile consisting of ingredients that are compliant with the European Union's environmental regulations (REACH). Introduction of these ammunition natures will mean significantly less lead exposure to personnel during the storage, transportation, handling, use and clean-up associated with all stages of the products lifecycle.

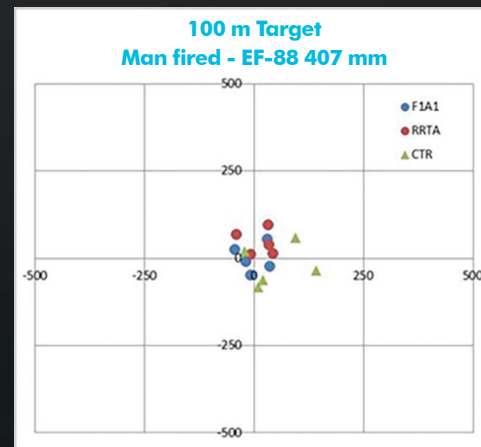


FIGURE 1: The CTR and RRTA are trajectory matched to in-service ammunition for realistic training outcomes without weapon modification.



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