



5.56 MM CLOSE TARGET ROUND (CTR)

Improved training outcomes

COMPARISON BETWEEN THE EXISTING F1 IN-SERVICE AND CTR BUILDS



The CTR is fully functional in standard unmodified ADF and LE weapons platforms (no requirement for a training bolt)

Cartridge components	Current in-service Cartridge 5.56 mm Ball F1	Cartridge 5.56 mm Ball CTR
Cartridge Case	F1 cartridge case	F1 cartridge case
Primer	Approved F1 primer, staked with primer pocket sealant	Primer, staked with primer pocket sealant
Propellant	AR2210 – CW adjusted to provide MV specified	AR2210 – CW adjusted to provide MV specified
Case mouth lacquer	Current F1 approved	Current F1 approved or NIL
Projectile	Current F1 Ball SS109-type	COTS fluted lead-free copper based frangible
Packaging	M2A1	M2A1

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IN THE BATTLE SINCE 1888

COMPARISON OF F1 AND CTR PERFORMANCE

	Cart 5.56 mm Ball F1	Cart 5.56 mm Ball CTR
V24 (m/s)	~915 m/s	Tailored to match F1
Chamber pressure	<405 MPa max	<405 MPa max (~242 MPa recorded)
Port pressure	Sufficient to cycle 5.56 mm weapons suite	As above
Dispersion at 100 m	<3 MoA	<3 MoA
Mean point of impact relative to F1 at 100 m	N/A	<0.5 MoA (i.e. within <15 mm at 100 m)
Case dimensions	NATO MOPI compliant	NATO MOPI compliant



Australian Munitions 5.56 mm Ball Close Target Round (CTR) is designed for indoor and short range outdoor training use. The CTR will allow Australian Defence Force Tier 1 combatants and law enforcement operators to train with their operational weapons indoors, removing the requirement to train with alternative or modified weapons. The CTR also allows outdoor close quarter combat with no splash back and accurate target engagements to 100 m+.

SPECIAL FEATURES

Australian Munitions 5.56 mm CTR ammunition allows for use of unmodified service weapons for indoor training, while allowing outdoor CQB training with reduced safety templates and more realistic stand-off ranges to targets up to 100 m or more. The rounds are trajectory matched with in-service ammunition to ensure realistic shooting practice while offering improved training outcomes overall.

As this ammunition is lead free, users will not be exposed to toxic by-products as a result of primer combustion or projectile-target strike dust. The range stop butts will not be required to trap leaded projectiles and significant savings can be realised in associated health monitoring and environmental clean-up costs. (Note: 1 million rounds of conventional 5.56 mm ammunition fired on a range equates to 200-300 kgs of lead deposited in the environment)

Australian Munitions 5.56 mm CTR uses a lead-free copper-polymer frangible projectile consisting of ingredients that are compliant with the European Union's environmental regulations (REACH). In addition to the aforementioned cost savings, this ammunition will also reduce exposure of personnel to lead during storage, transportation, handling, use and clean up associated with all stages of product lifecycle.

Australian Munitions 5.56 mm CTR 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 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.



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