



TECHNICAL DATA & USAGE SHEET

5.56mm LINKED MAN MARKER ROUND (MMR)



Identifiers

Designation: 5.56mm Linked Man Marker Round (MMR)
 Origin: United Kingdom/United States
 P/N [DODIC]: 13008770-1 [AB16] (Blue), 13008770-2 [AB17] (Red), 13008770-3 [AB15] (Yellow)
 NSN (NATO): 1305-01-537-1521 (Blue), 1305-01-537-1522 (Red), 1305-01-536-9289 (Yellow)
 Gross Package: Metal Can (PA108) containing 12 Boxes of 100 rounds (Linked).
 328mm (12.91in) x 226mm (8.90in) x 185mm (7.28in) (L x H x D)
 Gross Weight 17.3kg (38.1lb), NEQ 0.09kg (0.20lb)

Cartridge Components

Cartridge Case: Aluminium/Steel
 Link: M27 Link
 Cartridge Assembly: 12g
 Cartridge Overall Length: 53mm / 2.09 in
 Front Primer: Boxer Primer
 Rear Primer: .22 Blank / Power Load
 Projectile: See "Projectile Components" (Projectile is powered by primer only).

Projectile Components

Projectile Mass: 0.45g / 6.9gr
 Projectile Assembly: An Aluminium Base Cup which holds an Inertia Applicator Ball and Marking Compound covered with a Plastic (open) Cruciform Dome.
 Marking Compound: Non-toxic, inert, wax based compound, four standard colours (Red, Blue, Green, Yellow).
 Temperature Range of Marking Compound: -5°C to 40°C
 (23°F to 104°F)

Ballistics

Average Muzzle Energy: Avg 2.9 Joules / 2.2ft/lbs
 Average Muzzle Velocity: Avg 114m/sec (375fps)
 Accuracy: 50mm (1.97in) at 25m/27yds (mean radius)
 Maximum Effective Range for Training: Approximately 50m / 55yds
 Optimum Effective Range for Training: Approx. 30m / 32yds & closer.
 Standoff Distance: 1m / 3ft - No Contact Shots.
 Surface Danger Zone (SDZ): 129m / 141yds minimum safe distance..

Operational Data

Noise Levels: Peak 123dB (Indoors)
 Operational Temperature Range: -5°C to 40°C (23°F to 104°F)
 Compatible Weapon Types: 5.56mm/.223 LMG.

Storage

Shelf Life: Minimum five years in original packaging
 (Following recommended storage conditions).
 Recommended Storage: Dry environment, max storage
 temperature 40°C / 104°F

Warranty

1 Year in original packaging (Following recommended storage conditions).



European Patent number: 1228342 additional patents pending. US patent numbers: 6253682, 6371028, 6427600, 6095051, 6378439, 6422149, 6415718, 6564719 UTM, Ultimate Training Munitions, and the "Breech" logo design are trademarks belonging to UTM Ltd.



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Purpose

- Accurate and reliable marking projectile for Force-on-Force or Force-on-Target training.
- Adds realism and stress to training by providing a threat of consequence with physical and visual stimulus.
- Use of Force/ROE, Tactics, Skill Building, Scenarios, Movement Drills and other Interactive Training.
- Use as a safe prelude or alternative to 'Live-Fire' target or CQB training.
- Accuracy and reliability allows for multiple firearms, CQB, and marksmanship applications (360° firing, movement drills, weapon transitions)

Characteristics

- Normal weapon function and recoil.
- Projectiles mark at any angle to include glancing "hits" and do NOT have to burst to mark. Wash clothes and UTM PPE with domestic washing detergent.
- Realistic and consistent cyclic rates in semiautomatic and automatic weapons, which match "Live" fire.
- Surpasses "Live Fire" reliability.
- Minimal environmental impact with low emission.

Available Alternatives (5.56mm Linked MMR)

- Loose (SLR) Ammunition.

For more information
on product alternatives
and usage please contact
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Usage Guidelines

- Whenever handling UTM MMR Converted Weapons during FOF training, UTM recommended and approved goggles, face mask, helmet and protective gloves are mandatory - no exposed skin.
- UTM MMR converted weapons must be fired "clean and dry" in the weapon bore and barrel. NO LUBRICATION IN THE BARREL.
- The UTM linked round is machine gun weapon specific and is not to be de-linked and used in any other type of weapon. Using the UTM linked round in any other type of weapon could cause damage to the weapon.
- UTM strongly recommends that at least two layers of loose fitting clothing or UTM PPE clothing be worn during "Force-on-Force" Training exercises using UTM MMR. One layer of clothing (i.e. Military BDU/ACU) is mandatory.
- Contact shots and shots to bare skin are prohibited. Maintain a 1m/3ft safe separation distance during training engagements.
- Appropriate hearing and eye protection (safety glasses or goggles) is mandatory.
- Intended only for supervised training conducted in accordance with UTM safety training protocols by military or professional training and security organizations.
- Keep all ammunition out of reach of children.
- UTM assumes no responsibility for injuries, loss or damage resulting from misuse of this or any of its products.

WARNINGS

When converting back to 'Duty' use, ensure that the chamber and bore have been cleaned, cleared of all debris, objects or projectiles and inspected before firing a live round. Failure to ensure that the barrel of the host weapon is free from obstruction could result in damage to the barrel and/or injury to the operator.

