



# TECHNICAL DATA & USAGE SHEET

## 5.56mm MMR



### Identifiers

Designation: 5.56mm MMR  
 Origin: United Kingdom/United States  
 P/N: 01-0971 (Red), 01-0972 (Blue), 01-0973 (Green), 01-0974 (Yellow)  
 NSN (NATO): TBC  
 Gross Package: Cardboard Carton containing 30 Boxes of 30 rounds.  
 303mm (11.93in) x 184mm (7.24in) x 152mm (5.98in) (L x H x D)  
 Gross Weight 6.4kg (14.1lb), NEQ 0.05kg (0.11lb)

### Cartridge Components

Cartridge Case: Aluminium  
 Cartridge Assembly: 6g  
 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: A Plastic Base Cap which holds an Inertia Applicator Ball and Marking Compound Covered with a Plastic (open) Cruciform Dome.  
 Marking Compound: Non-toxic, inert, available in 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: 0.75m / 30in - No Contact Shots.  
 Surface Danger Zone (SDZ): 129m / 141yds minimum safe distance.

### Operational Data

Noise Levels: Peak 123dB (Indoors)  
 Operational Temperature Range: -10°C to 42°C (14°F to 108°F)  
 Compatible Weapon Types: 5.56mm/.223 Sprung Ejection SLR's.

### Storage

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

### Warranty

18 months 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.



# TECHNICAL DATA & USAGE SHEET

## 5.56mm MMR

### 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)

### Available Alternatives (5.56mm MMR)

- Reduced Velocity Projectile.
- Fixed Ejector Weapon Ammunition
- Non-Marking Projectiles.
- Linked (LMG) Ammunition.

### Usage Guidelines

- Whenever handling UTM 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.
- 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 0.25m/10in safe separation distance during training engagements.
- Appropriate eye protection (safety glasses or goggles) is mandatory.
- Intended only for supervised training conducted in accordance with UTM safety training protocols by military, law enforcement 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.
- Before using any UTM product, the end user must consult, and comply with, as applicable, all laws, rules, regulations, local ordinances, health and safety regulations, and safety practices recognized as standard in the firearms industry and for related training. The end user of any UTM product is solely responsible for any and all compliance in this regard.

### 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.

Disclaimer: Information contained in this publication is provided only for your convenience and is subject to change without notice. UTM MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, STATUTORY OR OTHERWISE, RELATED TO THE INFORMATION, INCLUDING BUT NOT LIMITED TO ITS CONDITION, QUALITY, PERFORMANCE, MERCHANTABILITY OR FITNESS FOR PURPOSE. UTM disclaims all liability arising from this information and its use. Use of UTM's products is entirely at the buyer's risk, and the buyer agrees to defend, indemnify and hold harmless UTM from any and all damages, claims, suits, or expenses resulting from such use. No licenses are conveyed, implicitly or otherwise, under any UTM intellectual property rights.

### Characteristics

- Normal weapon function and recoil.
- Projectiles mark at any angle to include glancing "hits" and do NOT have to burst to mark.
- Realistic and consistent cyclic rates in semiautomatic and automatic weapons, which match "Live" fire.
- Surpasses "Live Fire" reliability.
- Minimal environmental impact - low emission and available in non-toxic option only.

### Contact

For more information on product alternatives and usage please contact UTM at:

sales@utmworldwide.com  
+44 (0) 1638.711.003  
+1.877.886.7233  
+1.908.725.9000