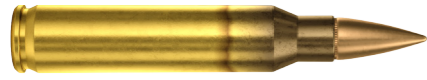


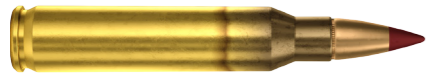
5.56 x 45 mm



NATO-qualified cartridge equivalent to M855 and SS109. Suitable for weapons with 1:7 to 1:9 barrel twist, may also be offered linked with any other trajectory-matched cartridges, such as Tracer, IR Tracer and SAT, in different configurations.

### NATO BALL

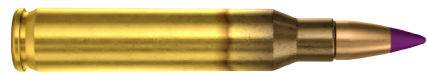
NORMATIVE REFERENCE	TIP IDENTIFICATION	PROJECTILE TYPE	PROJECTILE WEIGHT	VELOCITY AT 24 m <sup>1 2</sup>
NATO AEP-97 ED A V1	NONE	BALL	4.00 g / 62 gr	915 m/s / 3002 ft/s
ENERGY AT 24 m	CASE	SERVICE TEMPERATURE	SAFETY TEMPERATURE	BARREL TWIST
1675 J	BRASS	-54°C to +52°C -65°F to +125°F	-54°C to +71°C -65°F to +160°F	TW7



NATO standard tracer cartridge equivalent to M856 and L110, with full luminosity trace up to 600 m from the muzzle, visible in both day and night. Suitable for 5.56 x 45 mm weapons with a 1:7 to 1:9 barrel twist. May also be offered linked with any other trajectory-matched cartridges, such as Ball and/or SAT versions, in different configurations.

### NATO TRACER

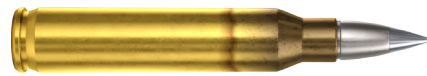
NORMATIVE REFERENCE	TIP IDENTIFICATION	PROJECTILE TYPE	PROJECTILE WEIGHT	VELOCITY AT 24 m <sup>1 2</sup>
NATO AEP-97 ED A V1	RED	TRACER	4.00 g / 62 gr	AS PER REFERENCE AMMUNITION
ENERGY AT 24 m	CASE	SERVICE TEMPERATURE	SAFETY TEMPERATURE	BARREL TWIST
≥ 1480 J	BRASS	-54°C to +52°C -65°F to +125°F	-54°C to +71°C -65°F to +160°F	TW7



IR Tracer cartridges are meant for night operations, granting the combat forces a stealth advantage. The bullet trace is completely invisible to the naked eye and only visible with the use of Night Vision Devices (NVDs). Suitable for 5.56 x 45 mm weapons with 1:7 to 1:9 barrel twist. May also be offered linked with other trajectory-matched cartridges, such as Ball and/or SAT versions, in different configurations.

### INFRARED TRACER [LEARN MORE ON PAGE 30](#)

NORMATIVE REFERENCE	TIP IDENTIFICATION	PROJECTILE TYPE	PROJECTILE WEIGHT	VELOCITY AT 24 m <sup>1 2</sup>
NATO AEP-97 ED A V1	LILAC	INFRARED TRACER	3.97 g / 61 gr	AS PER REFERENCE AMMUNITION
ENERGY AT 24 m	CASE	SERVICE TEMPERATURE	SAFETY TEMPERATURE	BARREL TWIST
≥ 1526 J	BRASS	-54°C to +52°C -65°F to +125°F	-54°C to +71°C -65°F to +160°F	TW7



Improved performance cartridge suitable for 5.56 x 45 mm weapons with 1:7 to 1:9 barrel twist. It combines superior hard target penetration with better terminal effects than conventional 5.56 NATO Ball version. Loaded with a lead-free projectile, the 5.56 SAT provides more lethality at close-and-long-range engagements, up to 600 meters. May also be offered linked with trajectory-matched cartridges, such as Ball, Tracer and IR-Tracer, in different configurations.

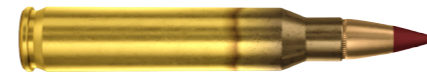
### SAT IMPROVED PERFORMANCE [LEARN MORE ON PAGE 32](#)

NORMATIVE REFERENCE	TIP IDENTIFICATION	PROJECTILE TYPE	PROJECTILE WEIGHT	VELOCITY AT 24 m <sup>1 2</sup>
NATO AEP-97 ED A V1	NONE	STEEL ARROW TIP (SAT)	4.0 g / 62 gr	900 m/s / 2953 ft/s
ENERGY AT 24 m	CASE	SERVICE TEMPERATURE	SAFETY TEMPERATURE	BARREL TWIST
1620 J	BRASS	-54°C to +52°C -65°F to +125°F	-54°C to +71°C -65°F to +160°F	TW7

### BALL M193

NORMATIVE REFERENCE	TIP IDENTIFICATION	PROJECTILE TYPE	PROJECTILE WEIGHT	VELOCITY AT 24 m <sup>1 2</sup>
MIL-C-9963F	NONE	BALL	3.56 g / 55 gr	965 m/s / 3165 ft/s
ENERGY AT 24 m	CASE	SERVICE TEMPERATURE	SAFETY TEMPERATURE	BARREL TWIST
1658 J	BRASS	-54°C to +52°C -65°F to +125°F	-54°C to +71°C -65°F to +160°F	TW12

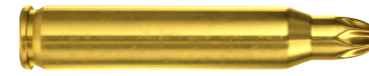
Standard Ball cartridge equivalent to M193. Suitable for weapons with 1:12 barrel twist, may be offered linked with Tracer version (M196).



Standard tracer cartridge equivalent to M196, with full luminosity trace up to 450 m from the muzzle, visible in both day and night. Suitable for weapons with 1:12 barrel twist. May also be offered linked with 5.56 Ball M193, in different configurations.

### TRACER M196

NORMATIVE REFERENCE	TIP IDENTIFICATION	PROJECTILE TYPE	PROJECTILE WEIGHT	VELOCITY AT 24 m <sup>1 2</sup>
MIL-C-60111C	RED	TRACER	3.35 g / 52 gr	AS PER REFERENCE AMMUNITION
ENERGY AT 24 m	CASE	SERVICE TEMPERATURE	SAFETY TEMPERATURE	BARREL TWIST
≥ 1512 J	BRASS	-54°C to +52°F -65°C to +125°F	-54°C to +71°F -65°C to +160°F	TW12



Standard Blank training cartridge equivalent to M200, may be used in standard and shorter magazines. Used with Blank Firing Attachment, it can be adjusted to all automatic weapons to provide consistent and reliable functioning.

### BLANK SHORT

NORMATIVE REFERENCE	STAR CRIMP	CARTRIDGE LENGTH	CARTRIDGE WEIGHT	CASE	SERVICE TEMPERATURE
MIL-C-60616	6	48.5 mm / 1.91 inch	7.25 g / 112 gr NOMINAL	BRASS	-32°C to +52°C -26°F to +125°F



Standard Blank training cartridge equivalent to M51, may be used in standard and shorter magazines. Used with Blank Firing Attachment, it can be adjusted to all automatic weapons to provide consistent and reliable functioning.

### BLANK INTERMEDIARY

NORMATIVE REFERENCE	STAR CRIMP	CARTRIDGE LENGTH	CARTRIDGE WEIGHT	CASE	SERVICE TEMPERATURE
MIL-C-60616	6	51 mm / 2 inch	7.6 g / 117 gr NOMINAL	BRASS	-32°C to +52°C -26°F to +125°F



Standard Blank cartridge for training. Used with Blank Firing Attachment, it can be adjusted to all automatic weapons to provide consistent and reliable functioning.

### BLANK LONG

NORMATIVE REFERENCE	STAR CRIMP	CARTRIDGE LENGTH	CARTRIDGE WEIGHT	CASE	SERVICE TEMPERATURE
MIL-C-60616	4	56 mm / 2.2 inch	7.7 g / 119 gr NOMINAL	BRASS	-32°C to +52°C -26°F to +125°F

<sup>1</sup> Temperature: 21°C (70°F) | <sup>2</sup> Test Barrel Length: 508 mm (20")

