



Small Arms Ammunition 5.56mm and 7.62mm

Proven reliability with superior performance

baesystems.com/munitions

BAE SYSTEMS

About Us

At BAE Systems, we provide some of the world's most advanced, technology-led defence, aerospace and security solutions. We employ a skilled workforce of over 110,000 people in more than 40 countries.

In an age of change and increasing uncertainty, where threats are escalating, technology is playing an essential part in our lives.

Our role is critical in helping our customers and partners stay ahead, from delivering innovations that provide military advantage, to offering services and support solutions that maintain, enhance and extend the life of vital military assets.

Why Us?

We are proud to equip the British Armed Forces and international customers with a range of products, including:

- Small arms ammunition
- Medium calibre ammunition
- Mortar ammunition
- Artillery ammunition
- Naval ammunition
- Advanced weapons

Our munitions have been proven in every possible environment, over many decades, with our specialist engineers working in partnership with our customers, to continually make performance improvements.

Our Small Arms Ammunition

We can produce over one million rounds per day of small arms ammunition in 5.56mm and 7.62mm NATO calibres, including: ball, tracer and blank rounds.

As the British Army's partner of choice since the 1940s, we are trusted to provide high volumes of precision rounds that soldiers know they can rely on.

Our engineers have developed new 5.56mm and 7.62mm rounds which can increase effective range and armour penetration, whilst remaining fully NATO compliant.

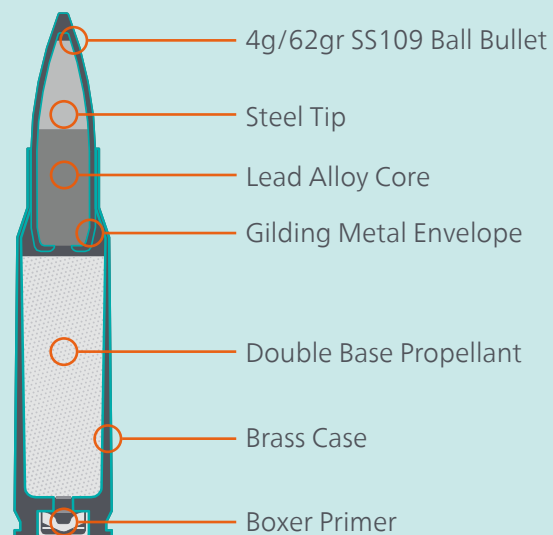
We are also currently designing new, light weight case ammunition that will reduce the weight burden and improve performance.

Our 5.56 x 45mm Ammunition

L15 Ball

- We supply this nature of NATO-qualified ammunition to Armed Forces throughout the world
- Known as the SS109, this has a hardened steel tip and lead alloy core
- Various packaging configurations are available, including carton, linked and clipped

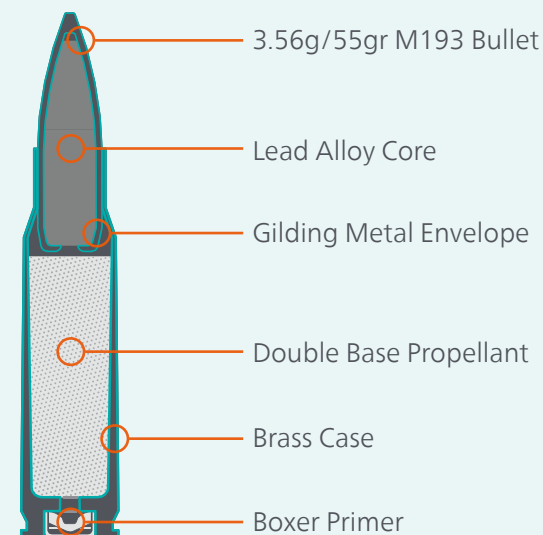
Bullet weight	4g/62gr
Cartridge weight	12g
Bullet	Lead Alloy Core / Steel Tip
Velocity	917m/s (24m from muzzle)
Consistency	≥ 70% hit probability (Rectangular target 350mm x 350mm at 550m range) Equivalent to horizontal and vertical st. dev. of less than 125mm at 550m
Trajectory matching	Trajectory matched to NATO reference cartridge at 300m and 550m
Temperature range for weapon function	-54°C to +52°C
Primer type	Boxer - Non Corrosive



M193 Ball

- The original 5.56mm Ball bullet, the M193, is based on a traditional lead-core design
- The lighter 3.56g bullet is favoured by some armed forces depending on their choice of assault rifle and is available with the same packaging options as the L15 Ball
- Designed and manufactured to STANAG 4172 requirements, the M193 round will perform flawlessly in conditions ranging from arid desert to sub-zero Arctic environments

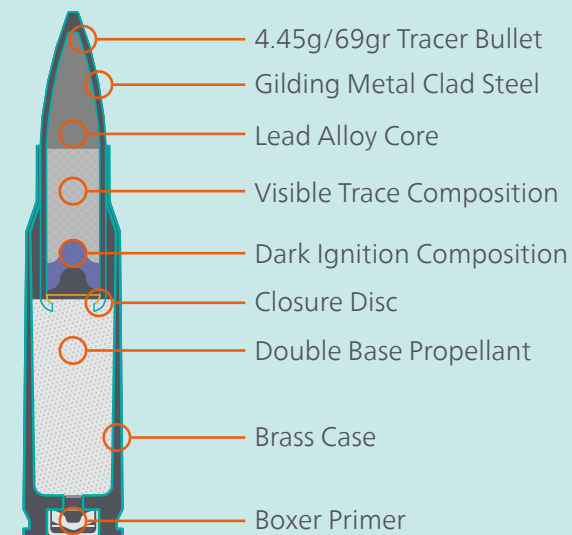
Bullet weight	3.56g/55gr
Cartridge weight	11.7g
Bullet	Lead Alloy Core
Velocity	965m/s (24m from muzzle)
Consistency	Combined horizontal and vertical st. dev. of shot distribution, at 500m range, shall not exceed 120mm, nor exceed 180mm for any individual target (When using an accuracy barrel with rifling twist of 1 in 12 inches)
Temperature range for weapon function	-54°C to +52°C
Primer type	Boxer - Non Corrosive



L16 Tracer

- Our NATO-qualified L16 Tracer round provides a highly accurate ballistic trace for assault rifles and fully-automatic belt-fed weapons
- It is most commonly used in 4-to-1 or 1-to-1 ratios and is highly visible in both day and night
- It also features a tracer delay composition to conceal the location of the shooter

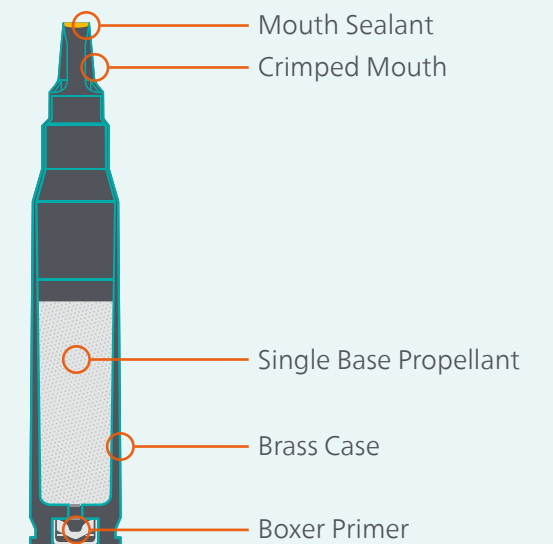
Bullet weight	4.45g/69gr
Cartridge weight	12.25g
Bullet	Lead Alloy Core / Tracer Comp.
Velocity	872m/s (24m from muzzle)
Consistency	≥ 70% hit probability (Rectangular target 650mm x 650mm at 550m range) Equivalent to horizontal and vertical st. dev. of less than 220mm at 550m
Trajectory matching	Trajectory matched to NATO reference cartridge at 300m and 550m
Tracer performance	Invisible for 13m min. from the muzzle. Continuous visible trace beginning at 140m max. and continuing for 600m min. from the muzzle
Temperature range for weapon function	-54°C to +52°C
Primer type	Boxer - Non Corrosive



L18 Blank

- This Blank ammunition has an extended case, simulating the form of the bullet round
- Blank training ammunition can be supplied in a variety of configurations to suit customer requirements

Cartridge weight	7.72g
Temperature range for weapon function	-20°C to +40°C
Primer type	Boxer - Non Corrosive

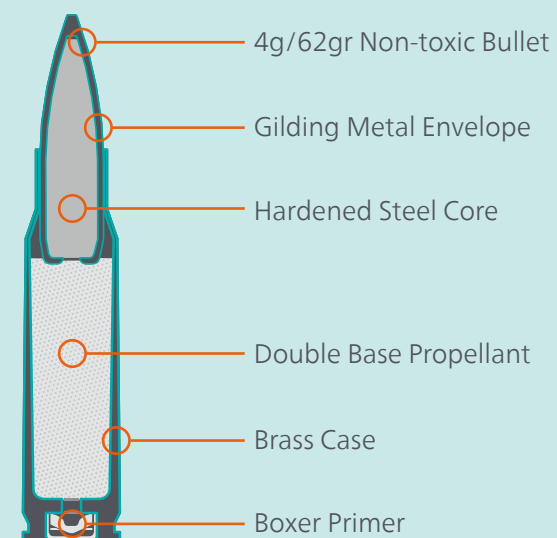




L31 Enhanced Performance (EP) Ball

- This 5.56mm round delivers enhanced penetration, range and lethality
- A lead-free bullet compatible with all 5.56mm NATO weapons
- For use with existing weapons, delivering enhanced performance

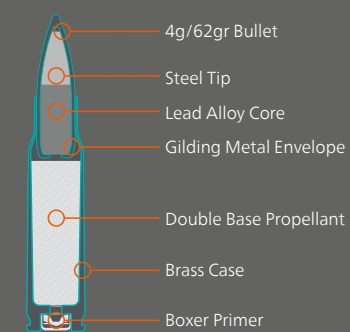
Bullet weight	4g/62gr
Cartridge weight	12g
Bullet	Hardened Steel Core
Velocity	911m/s (24m from muzzle)
Consistency	≥ 70% hit probability (Rectangular target 350mm x 350mm at 550m range) Equivalent to horizontal and vertical st. dev. of less than 125mm at 550m
Trajectory matching	Trajectory matched to NATO reference cartridge at 300m and 550m
Temperature range for weapon function	-54°C to +52°C
Primer type	Boxer - Non Corrosive



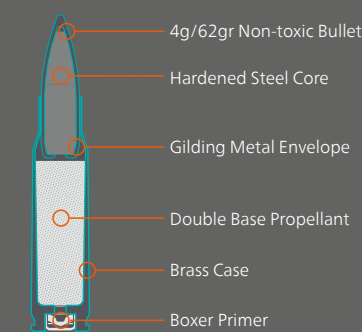
Comparing Standard and Enhanced Performance Ammunition

Our L31 Enhanced Performance (EP) Ball ammunition can penetrate armour at greater ranges, giving troops a significant tactical advantage

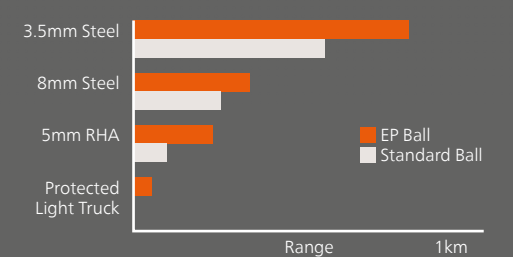
L15 Ball



L31 Enhanced Performance Ball



Range Comparison

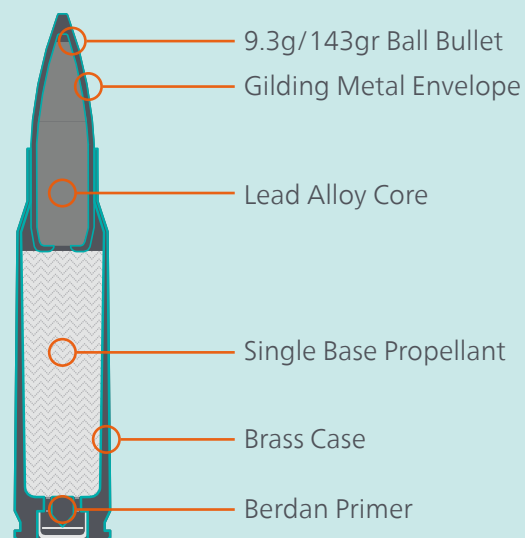


Our 7.62 x 51mm Ammunition

L44 Ball

- We supply this NATO-qualified ammunition to armed forces worldwide
- This product provides exceptional accuracy, consistency and reliability

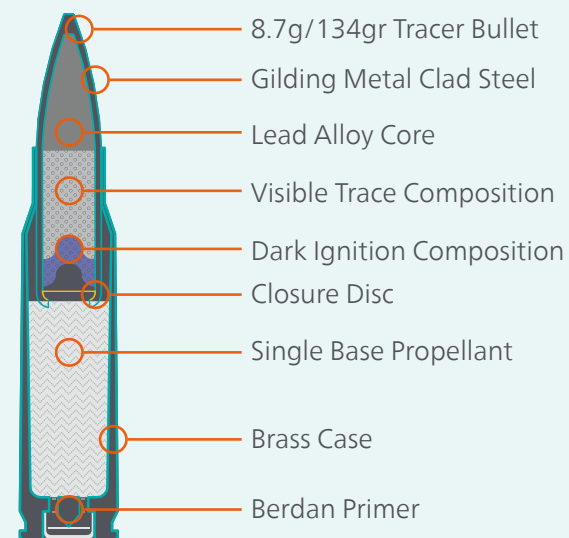
Bullet weight	9.3g/143gr
Cartridge weight	24g
Bullet	Lead Alloy Core
Velocity	830m/s (24m from muzzle)
Consistency	≥ 70% Hit probability (rectangular target 350mm x 350mm at 550m range) Equivalent to horizontal and vertical st. dev of less than 125mm at 500m
Trajectory matching	Trajectory matched to NATO reference cartridge at 300m and 550m
Temperature range for weapon function	-54°C to +52°C
Primer type	Berdan - Non Corrosive



L45 Tracer

- Our NATO-qualified 7.62mm Tracer is ballistically matched to the L44 Ball and the L59 High Performance (HP) Ball
- It also features a tracer delay composition to conceal the location of the shooter

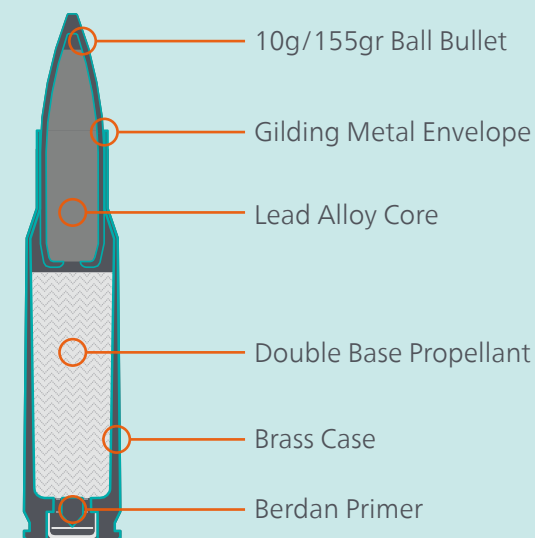
Bullet weight	8.7g/134gr
Cartridge weight	23g
Bullet	Lead Alloy Core / Tracer Comp.
Velocity	828m/s (24m from muzzle)
Consistency	≥ 70% Hit probability (rectangular target 650mm x 650mm at 550m range) Equivalent to horizontal and vertical st. dev of less than 220mm at 500m
Trajectory matching	Trajectory matched to NATO reference cartridge at 300m and 550m
Tracer performance	Invisible for 13m min. from the muzzle. Continuous visible trace shall begin at a distance not greater than 140 metres and continue to a distance of 914 metres from the muzzle
Temperature range for weapon function	-54°C to +52°C
Primer type	Berdan - Non Corrosive



L42 Sniper

- The sniper ammunition is designed for use where long range accuracy is of major importance
- This round that is supplied to the British Army Combat Shooting Team for use in international events, as well as to British Army Sharpshooter users
- It uses a 10 gram (155 grain) Full Metal Jacket bullet with a solid lead alloy core, providing excellent accuracy at long ranges
- Sniper ammunition is suitable for use in bolt-action and semi-automatic sniper rifles
- The Sniper round is designed to stringent UK specifications which exceed the requirements of NATO STANAG 2310, providing outstanding performance and reliability

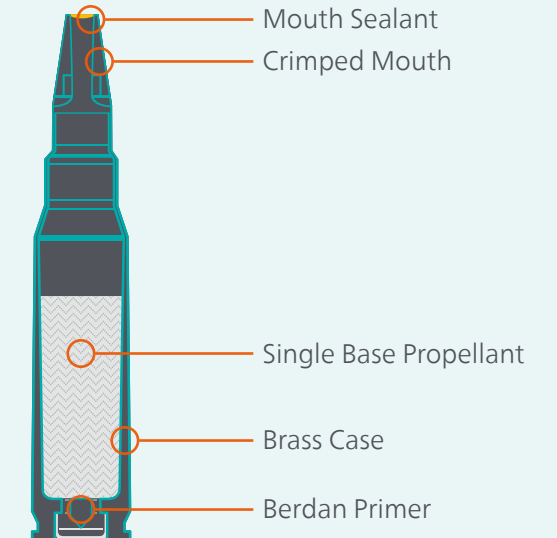
Bullet weight	10g/155gr
Cartridge weight	24g
Bullet	Lead Alloy Core
Velocity	845m/s (24m from muzzle)
Consistency	≥ 94% Hit Probability (rectangular target 250mm x 250mm at 550m range)
Temperature range for weapon function	-54°C to +52°C
Primer type	Berdan - Non Corrosive

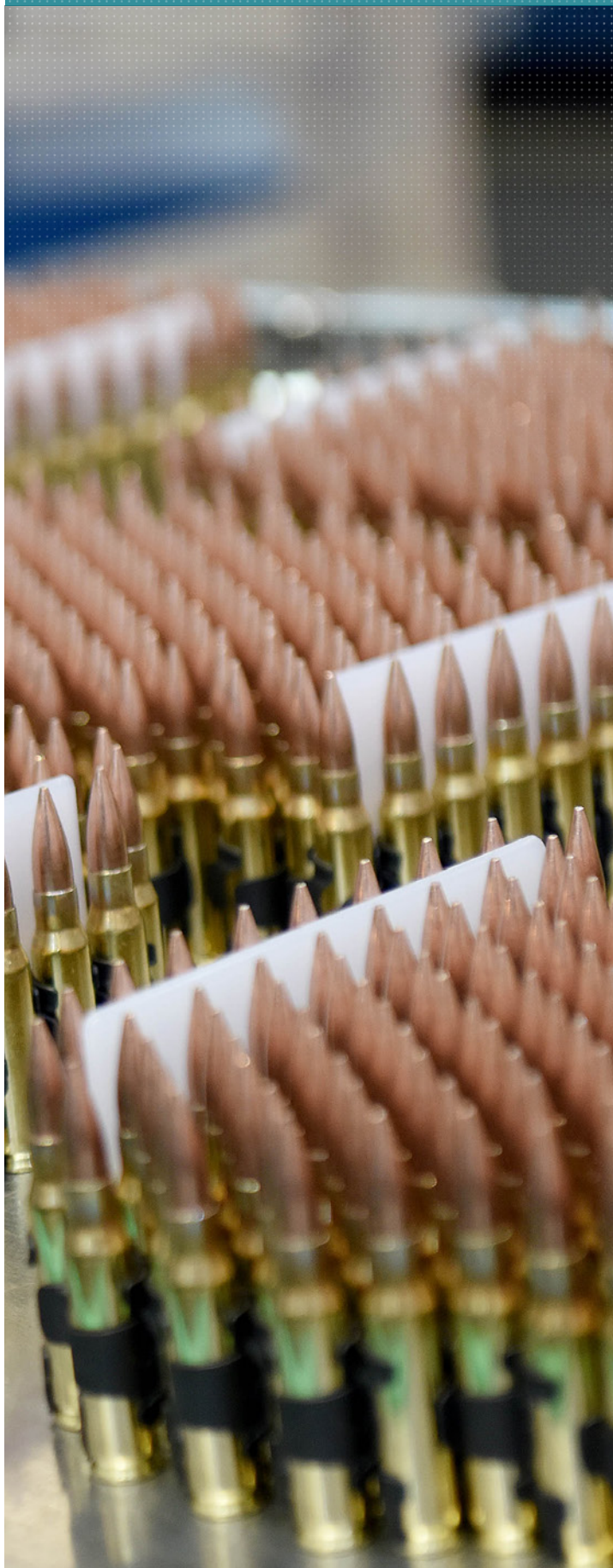


L43 Blank

- This Berdan primed Blank ammunition has an extended case, simulating the form of the bullet round
- Blank training ammunition can be supplied in a variety of configurations to suit customer requirements

Cartridge weight	12.6g
Temperature range for weapon function	-20°C to +40°C
Primer type	Berdan - Non Corrosive

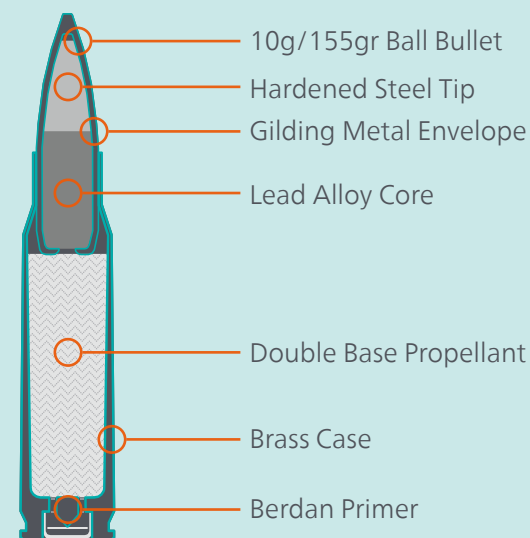




L59 High Performance (HP) Ball

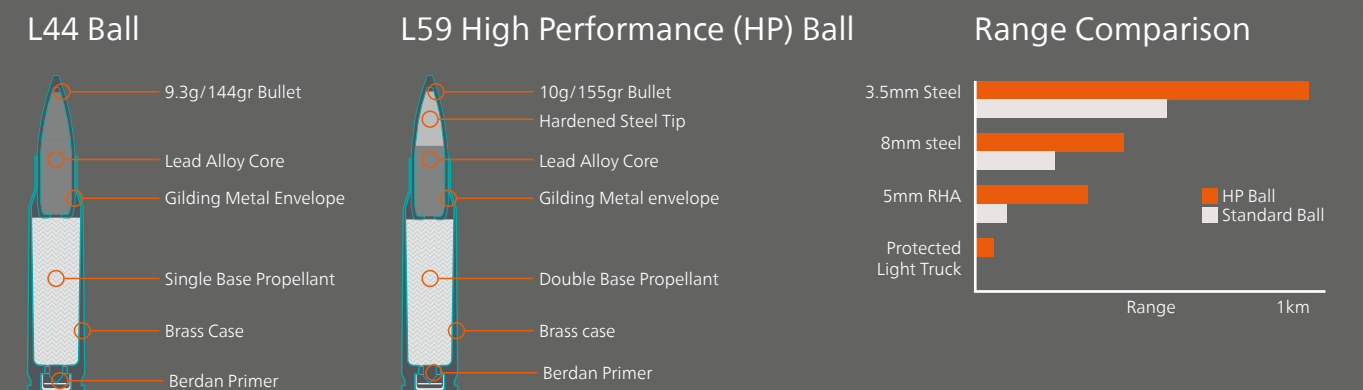
- Our premier NATO-qualified 7.62mm High Performance (HP) round gives superior range, accuracy and firepower
- It is available in a variety of configurations to suit assault/sharpshooter rifles, machine guns or rotary fire weapons

Bullet weight	10g/155gr
Cartridge weight	24g
Bullet	Hardened Steel Tip / Lead Alloy Core
Velocity	825m/s (24m from muzzle)
Consistency	≥ 70% Hit Probability (rectangular target 350mm x 350mm at 550m range) Equivalent to horizontal and vertical st. dev of less than 125mm at 550m
Trajectory matching	Trajectory matched to NATO reference cartridge at 300m and 550m
Temperature range for weapon function	-54°C to +52°C
Primer type	Berdan - Non Corrosive



Comparing Standard and High Performance Ammunition

Our L59 High Performance (HP) Ball ammunition can penetrate armour at greater ranges, giving troops a significant tactical advantage



Engineering the Future

Staying one-step ahead of the enemy is key on the modern battlefield. Having the right equipment, in the right place, at the right time is essential to provide advantage.

Our world-class scientists and engineers are continually pushing the boundaries, to deliver a tactical edge.

We provide the highest quality, cutting-edge products, to equip those who protect us.

