



4.5 inch Naval Rounds

Proven reliability with superior performance

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 90,500 people in more than 40 countries.

In an age of increasing change and 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 as challenges and opportunities change. This takes many forms: from innovations which provide military advantage, to services and support solutions which maintain and enhance 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
- Warheads and payloads

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 4.5 inch Naval Ammunition

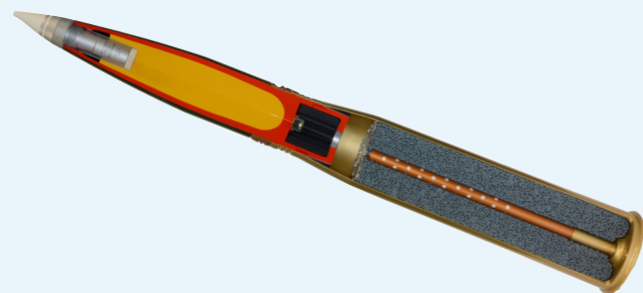
We have provided the UK Royal Navy and the Armada De Chile with 4.5 inch Naval rounds for over 30 years, delivering reliable performance and advanced capability whilst remaining cost-competitive.

Our 4.5 inch Naval Rounds

Improved Ammunition (IA) High Effect (HE) N20 Fuzed NC23

- This round is designed for use with a 4.5 inch Mk8 Naval Gun
- It is a fixed round and comprises of a shell, fuze and propelling charge
- The shell is fitted with a Base Bleed unit to increase range and a proximity/point detonating fuze
- The propelling charge comprises of a brass cartridge case, containing triple base propellant and a primer

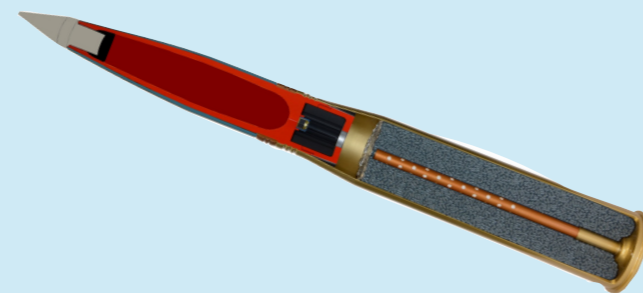
Overall length	1237.5mm (including fuze)
Total weight	37kg
Net explosive content	11kg
High explosive content	3kg Max
Explosive filling	RDX/TNT
Propellant	Triple Base
Max range	27.1km
Effect	Fragmentation and blast damage
Gun compatibility	4.5 inch Mk8 Naval Guns
Qualification status	Qualified and in service



Improved Ammunition (IA) Surface Practice (SuP) N21

- This round is ballistically matched to IA HE 4.5 inch Mk8 N20 and is used for training purposes

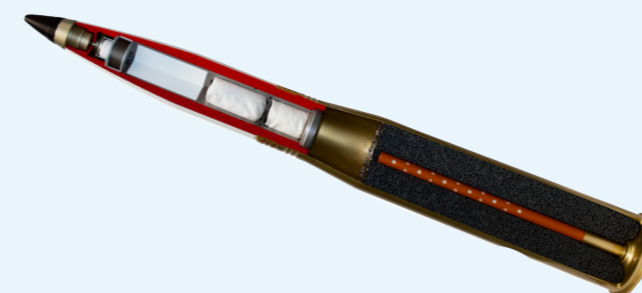
Overall length	1237.5mm (including fuze)
Total weight	37kg
Payload mass	8.1kg
Propellant	Triple Base
Max range	27.1km
Gun compatibility	4.5 inch Mk8 Naval Guns
Qualification status	Qualified and in service



Illum L1 Fuzed L163

- This round is designed for use with a 4.5 inch Mk8 Naval Gun
- It is a fixed round and comprises of a shell, fuze and propelling charge
- The shell is manufactured from steel and is a base ejecting projectile that contains a white light illuminating flare and parachute assembly
- The shell is fitted with a time fuze, set by the user, to determine ejection time of the flare. This ignites and during a controlled descent, illuminates the target area in the visible spectrum for up to 45 seconds
- The propelling charge comprises of a brass cartridge case, containing triple base propellant and a primer

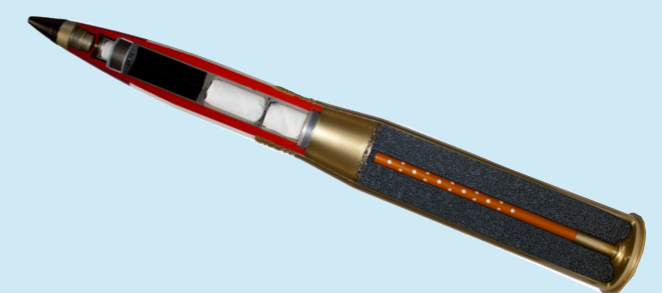
Overall length	1222mm (including fuze)
Total weight	37kg
Payload mass	8.5kg
Propellant	Triple Base
Max range	21.5km
Light output	Approx. 750,000 candela for 45 sec
Descent rate	Typically 5.5m/s
Gun compatibility	4.5 inch Mk8 Naval Guns
Qualification status	Qualified and in service



Infra-Red (IR) Illum L2 Fuzed L163

- This round is designed for use with a 4.5 inch Mk8 Naval Gun
- It is a fixed round and comprises of a shell, fuze and propelling charge
- The steel shell is base ejecting and contains a near infra-red spectrum illuminating flare and parachute assembly
- The shell is fitted with a time fuze, set by the user, to determine ejection time of the flare. This ignites and during a controlled descent, illuminates the target area in the near infra-red spectrum for up to 90 seconds
- The propelling charge comprises of a brass cartridge case, containing triple base propellant and a primer

Overall length	1222mm (including fuze)
Total weight	37kg
Payload mass	8.3kg
Propellant	Triple Base
Max range	21.5km
IR illumination duration	Typically 90 sec
Descent rate	Typically 5.5m/s
Gun compatibility	4.5 inch Mk8 Naval Guns
Qualification status	Qualified and in service



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.



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