

# AMMUNITION

## **Repaircraft PLC**

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CVR(T) SUPPLY, SUPPORT, REPAIR, REFURBISH AND UPGRADE

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## AMMUNITION

Repaircraft PLC can supply a wide range of Ammunition for both the 76mm and 90mm Scorpion Tank.



### 1 76mm AMMUNITION SUPPLY TYPES

#### HESH-T

General purpose anti-personnel and anti-materiel round.

- Weight: 7.4 kg (nominal)
- Length: 542 mm
- Filling: Comp. A3
- Fuse: BD/Graze
- Tracer: M13 type, >3 sec
- Muzzle Velocity: 534 m/s (nominal at 21°)
- Range: Direct: 2,400 m Indirect: 6,000 m
- Precision: 1.22 mils
- Target: Up to 80 mm RHA

#### HESH-TP-T

Practice round to provide cost effective marksmanship and live fire training of gun crews.

- Weight: 7.4 kg (nominal)
- Length: 542 mm
- Filling: Inert
- Tracer: M13 type, >3 sec
- Muzzle Velocity: 534 m/s (nominal at 21°)
- Range: Direct: 2,400 m Indirect: 6,000 m
- Precision: 1.22 mils

## HE-T

Effective round for anti-personnel and provides fire support to infantry.

- Weight: 7.35 kg (nominal)
- Length: 527 mm
- Filling: Comp.B
- Fuse: PD M557
- Tracer: M13 type, >3 sec
- Muzzle Velocity: 514 m/s (nominal at 21°)
- Range: Direct: 2,400 m Indirect: 6,000 m
- Precision: 1.22 mils
- Number of fragments:  $\pm 800$
- Lethal radius: 6.5 m

## CANISTER

A thin-walled cylindrical body is filled with steel pellets. The pellets spread out after leaving the gun muzzle and are highly lethal to a range of about 100 metres.

- Weight: 6.69 kg
- Length: 399 mm
- Muzzle Velocity: 500 m/s

## SMOKE

Base ejection of 3 smoke canisters, controlled by time fuse setting, results in dense white smoke emission for minimum time period of 50 seconds providing wide area coverage.

- Weight: 10.20 kg
- Length: 588 mm
- Muzzle Velocity: 290 m/s

## ILLUMINATING

350,000 candelas for a minimum of 30 seconds duration. Ejection of the flare is controlled by a time fuse.

- Weight: 9.69 kg
- Length: 588 mm
- Muzzle Velocity: 297 m/s

## 2 90mm AMMUNITION SUPPLY TYPES

### APFSDS

An Armour Piercing, Fin Stabilised, projectile with Discarding Sabot which defeats armoured targets, including multi plate spaced armour, using the kinetic energy of the tungsten alloy long rod penetrator.

- Weight: 7.2 kg (nominal)
- Length: 647 mm
- Penetrator: Tungsten Alloy
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.8 kg
- Muzzle Velocity: 1,200 m/s (nominal at 21°)
- Operational range: More than 1,500 m
- Penetration (at 60° obliquity): 100 mm RHA Target
- TOF to 1500 m: less than 1.4 s
- Probable Error: less than 0.3 mils

### HEAT-T

A High Explosive Anti-tank round, with an electronic Base Detonating Fuse with two independent in-bore safeties. The Fuse has a nose switch and a graze element. A practice round HEAT-TP-T is available. It has the same ballistics as the live HEAT-T.

- Weight: 8.3 kg (nominal)
- Length: 700 mm
- Fuse: Electronic Base
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.4 kg
- Muzzle Velocity: 890 m/s (nominal at 21°)
- Operational range: 1,000 m
- Effective range: 1,500 m
- Penetration: better than Nato Medium Target

### SMOKE (WP)-T

A Smoke and Incendiary round equipped with an electronic PD and Graze Fuse. The Fuse has two independent safeties, and complies with Stanag 4187 and Mil-Std-1316D. Used for screening, signalling or target spotting purposes as well as for its incendiary effect. Ballistically similar to the HE-T round.

- Weight: 9.2 kg (nominal)
- Length: 640 mm
- Projectile filling (White Phosphorous): 1.1 kg
- Fuse: PD, Graze
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.1 kg
- Muzzle Velocity: 695 m/s (nominal at 21°)
- Operational range: 800 m
- Effective range: 2,000 m

## HEP-T

A HEP (HESH) round, with an electronic Base Detonating and Graze Fuse, which produces a severe spalling effect when used against armoured targets. Effective against bunkers and structures, with a high blast and fragmentation effect. A practice round HEP-TP-T is available. It has the same ballistics as the HEP-T.

- Weight: 8.2 kg (nominal)
- Length: 600 mm
- Projectile filling (Comp. A3): 1.3 kg
- Fuse: BD/Graze
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.2 kg
- Muzzle Velocity: 800 m/s (nominal at 21°)
- Effective range: 800 m
- Spalled material (RHA):  $\pm 3$  kg

## HE-T

A blast and fragmentation round, with an electronic PD, delay and Graze Fuse. The Fuse has two independent safeties, and complies with Stanag 4187 and Mil-Std-1316D. The round is designed for use against light structures and material targets, personnel or for general demolition. In delay mode the round is also effective against bunkers and buildings.

- Weight: 9.0 kg (nominal)
- Length: 640 mm
- Projectile filling (Comp.B): 1.0 kg
- Fuse: EPD, Graze + Delay
- Tracer: 4 sec
- Propellant: (single base, multi-perf.) - 1.1 kg
- Muzzle Velocity: 700 m/s (nominal at 21°)
- Operational range: 800 m
- Effective range: 2,200 m

## CANISTER

A "Shot Gun" type round which propels a spreading cone of 1,100 lead spheres in a wide frontal arc for anti-personnel anti-ambush and close-in defence.

- Weight: 7.4 kg (nominal)
- Length: 522 mm
- Number of Spheres: 1,100
- Sphere diameter: 8.5 mm (lead)
- Propellant: (single base, multi-perf.) - 1.14 kg
- Muzzle Velocity: 700 m/s (nominal at 21°)
- Operational range: 200 m
- Cone angle (total): 18°
- Inception of spread: 9 m



76mm HESH PERFORMANCE

