



M1

High Explosive Fragmentation Warhead



The ordnance payload achieves the efficient blastfragmentation effect by means of high lethality fragments (balls) and by means of air shock wave (blast effect of detonated explosive charge). The ordnance body is made of high resistant plastic, with one cavity in the rear part for accommodating a separate activation unit Smart Safety and Arming Mechanism. This is a non-contact and safetyarming device type, and is activated remotely as per the user's commands.

The explosive ordnance payloads are effective against the human target and soft skinned but non-armored vehicle. Explosive is non sensitive on bullet impact 23 mm APIT and on effects of open flame and high temperature.

The High Explosive Fragmentation Warhead M1 for the ground special vehicle system consists of:

- Blast-fragmentation warhead with glass-plastic bonded balls (fragmentation layer) and
- Smart Safety and Arming Mechanism.



TECHNICAL DATA:

- Size $156 \pm 2 \times 600 \pm 2 \times 300 \pm 2$ mm
- Total mass $44,8 \pm 0,65$ kg
- Mass of explosive 28,5 kg
- Number of balls ($\varnothing 8$ mm) ~ 5250 pcs.
- Effective range (human target) > 60 m
- Effective range (soft skinned vehicle) > 50 m (2 mm steel sheet)
- Maximum fragment range < 350 m
- Effective lethal azimuth coverage 60°
- Effective lethal elevation coverage at 60 m $> 3,8^\circ$ / at 50 m $> 3,4^\circ$
- Operational temperature range -30°C up to $+65^\circ\text{C}$
- Warhead safety and operational criteria MIL-STD 810G, MIL-STD-2105B

