

### Thermobaric

NSN: 1310-50-001-5717(AF610)

NSN: 1310-50-001-5718(AF622)

#### **Performance:**

The Mortar Bomb **TB 60C** is intended for combined destruction, both by air-blast and thermal emission, of the following variety of targets:.

- Enemy manpower and equipment located mainly in different types of shelters and enclosed spaces such as caves as well as in the open;
- light armored and unarmored vehicles.
- The body of the thermobaric mortar bomb contains bursting charge that on impact ignites and disperses the contents of the body which, as it burns, generates a rapidly forming high-pressure blast wave which neutralizes the target area.
- A zone is created with overpressure and intense heat in the detonation area.
- The aluminum body is plastic coated which guarantees much safer handling and storage of the ammunition;
- The fin stabilizer is made of plastic for increasing the life of the tube of the Mortar weapon system.
- This Mortar Bomb is fused
  - AF610 (Point detonating, super quick action, boresafe type, muzzle safety distance 40 m).
  - AF622 (Point detonating, super quick action, boresafe type) fuze.

#### **Weapon compatibility:**

The Mortar Bomb **TB 60C** is intended to be used with any type of smooth bore 60 mm Mortars of NATO Standard:

- COMMANDO Mortar M60CMA;
- M60MA;
- M2 and M19;
- BRANDT model 35;
- Tampella;
- Thompson Houston – Hotchkiss – Brandt Commando;
- MO-60-63;
- M-57;
- M6H and M6C Hirtenberger;
- Commando CX1-M Expal;
- etc.;
- and designed for fighting uncovered enemy manpower, as well as unarmored means of transportation.



# 60 mm Mortar Bomb TB 60C

TECHNICAL DATA	TB 60C
Caliber, mm	60
Body material	Aluminum alloy
Length of fuze Mortar Bomb, mm/in	310 mm / 12.2 in
Weight fuze, kg/lbs.	1.15 kg / 2.5 lbs.
Payload type	Thermobaric composition TBC-2
Weight of payload TBC-2, kg	max 0.450 kg / .99 lbs.
Highest Max Pressure, bar (piezo)	290 (0+2)
Fuze AF 610 arming distance, m	not less than 40
Operating Temperature Range, °C/°F	from -40°C to 50°C / -40°F to 122°F

BALLISTIC DATA	(WITH 640 MM BARREL COMMANDO)
Maximum Pressure, bar (piezo):	195 (0+2)
Max Range, m/yd	2,347 (0+2) m / 2566 yds.
Maximum Muzzle Velocity, m/s	203 (0+2)
<b>Class of explosion hazard:</b>	<b>1.2E, UN 0321</b>

PACKING Version 1	TB 60C
One fuze Mortar Bomb with 2 pcs. increment charges is packed in a Plastic Airtight Container;	20 pcs. containers are arranged in a plastic airtight case.
Plastic case dimensions, mm/in	616 x 522 x 182 mm / 24.2 x 20.5 x 7.1 in
Case weight, kg/lbs.	35 kg / 77.1 lbs.
Case volume, m <sup>3</sup>	0.0585 m <sup>3</sup>

PACKING Version 2	TB 60C
One fuze Mortar Bomb with 2 pcs. increment charges is packed in a Plastic Airtight Container;	10 pcs. Containers are arranged in a wooden case.
Plastic case dimensions, mm/in	420 x 400 x 216 mm / 16.5 x 15.7 x 8.5 in
Case weight, kg/lbs.	20 kg / 4.0 lbs.
Case volume, m <sup>3</sup>	0.036 m <sup>3</sup>