

120 mm, TB

Mortar shell with fuze UT M88 P2

120 mm TB shell with insensitive thermobaric explosive PBX as per MIL-STD-2105B (Immunity to impact of the bullet, Fast cook-off resistance). Compared to the standard 120 mm HE shell, the 120 mm TB shell has an improved fragmentation and particularly blast effect. Proximity fuze is under development.

TECHNICAL DATA:

• Caliber	120 mm
• Length of shell with fuze	606 mm
• Mass of mortar shell with fuze	12650 g
• Explosive charge	Thermobaric explosive (PBX)
• Explosive insensitivity according MIL-STD-2105B	
- Open flame and high temperature	Reaction type V (burning reaction)
- Impact of 12.7 mm Armour Piercing Ammunition	Reaction type V (burning reaction)
• Mass of explosive charge	2525 g
• Shell is assembled with impact fuze	UT M88 P2
• Overpressure at 5 m	0.5 bar
• Muzzle safety at lowest initial velocity	50 m
• Shell is completed with	Ignition cartridge and 6 Increment charges (0+6)
• Ignition cartridge	M74
• Operating temperature range	-30 °C to +55 °C
• Storing temperature range	-30 °C to +70 °C
• Service life	15 years
• High safety during transportation, handling and parachuting	

BALLISTIC DATA:

• When using 120 mm Mortar M75, barrel length 1500 mm:	
- Maximum range (0+6)	6500 m
- Minimum range (0)	255 m
• Max mean operating pressure in mortar	961 bars
• Killing range (1 penetration / m ²)	20 m

