



105 mm HEAT



General

Triple base seven perforated propellant cylindrical grains, category 15/7 (M30) is a kind of triple base propellant containing Nitrocellulose (NC), Nitroglycerine (NG), Nitroguanidine (NQ), Cryolite and Centralite.

This propellant is used in 105mm HEAT ammunition for tank gun type M60.



PROPELLANT AND
HIGH EXPLOSIVES

TECHNICAL SPECIFICATIONS

Length	~16.5 mm
Hole diameter	~0.5 mm
Web thickness	~1.5 mm
Total volatile	≤ 0.7 %
Stability at 120 °C	≥ 40 min.

BALLISTIC SPECIFICATIONS

Total charge (approx.)	5100 gr
Muzzle Velocity at 21°C	1173.5 m/s
Average Pressure at 21°C	≤ 436.40 MPa
Std. Dev. of Velocity at 21°C	≤ 2.38 m/s

155 mm B.B

General

Nineteen perforated cylindrical propellant type M30A1, is a kind of triple base powder mainly containing Nitrocellulose (NC), Nitroglycerine (NG) and Nitroguanidine (NGu).

This triple-base propellant (M30A1) is used in zone 8S for Gun 155mm GC-45 HOWITZER



TECHNICAL SPECIFICATIONS

Length	16.5 - 17.5 mm
Hole diameter	0.30 - 0.38 mm
Inner Web Thickness	2.20 - 2.50 mm
Outer Web Thickness	2.50 - 2.90 mm
External Diameter	16.0 - 16.6 mm
Heat of Explosion	940 - 980 cal/g
Total volatile	≤ 0.5%
Stability at 120 °C	≥ 40 min.

BALLISTIC SPECIFICATIONS

Weight of Charge	~ 16	000 gr
Average Muzzle Velocity	897 m/s	
Average Chamber Pressure	≤ 348 ma	
Std. Dev. of Velocity at 21°C	≤ 2.4 m/s	