



155 mm IK



General

Single base seven perforated propellant cylindrical grain category 12/7 is a kind of single base propellant containing Nitrocellulose (NC) and Diphenylamine (DPA). This propellant is used in 155mm Krasnopol (Basir) cannon-launched guided projectiles.



TECHNICAL SPECIFICATIONS

Length	13.5 - 15.6 mm
Hole diameter	0.5 - 0.7 mm
Web thickness	1.15 - 1.25 mm
Volatile solvents	≥ 1.0 %
External moisture	1-1.8 %
Stability at 134.5°C	≥ 40

BALLISTIC SPECIFICATIONS

Total charge	~ 5100 gr
Average Velocity	502 ± 5 m/s
Mean Pressure at +21°C	1600 bar

PROPELLANT AND HIGH EXPLOSIVES

155 mm (ZONE 8 CHARGE)

General

Single base seven perforated propellant cylindrical grain contains Nitrocellulose (NC), Diphenylamine (DPA), Dinitrotoluene (DNT), Dibutyl Phthalate (DBP) and Potassium Sulfate. This propellant is used in zone 8 charge for 155mm ammunitions.



TECHNICAL SPECIFICATIONS

Length	18 ± 1 mm
Diameter	8.8 ± 0.5 mm
Hole diameter	0.7 ± 0.1 mm
Outer Web thickness	1.7 ± 0.2 mm
Inner Web thickness	1.8 ± 0.2 mm
Graphite	≤ 0.2 %
Total volatiles	≤ 2%
Moisture	0.8 ± 0.2 %
Heat of explosion	760 - 800 cal/gr
Stability at 134.5 °C	≥ 40 min

BALLISTIC SPECIFICATIONS

Total charge	~ 9000 gr
Average Velocity	686 ± 7.7 m/s
Std. dev. of Velocity	≤ 2.1 m/s
Average Pressure at 21°C	≤ 2552 bar
Max. Pressure at +63°C	≤ 2827 bar