



General

Single base seven perforated propellant cylindrical grain, 12/7 VA containing Nitrocellulose (NC) and Diphenylamine (DPA) and tubular propellants: 15/1-240 and 15/1-352 is a kind of single base propellant containing Nitrocellulose (NC) and Diphenylamine (DPA).

12/7 VA propellant is used for 125mm Heat and HE ammunition. This ammunition is used for 125mm gun fitted on T-72 8T-80 tank.

12/7 VA, 15/1-240 and 15/1-352 propellants are used in propelling charge in APFSDS ammunition for 125mm tank gun type T72.



TECHNICAL SPECIFICATIONS

Type of propellant	Seven perforated (12/7 VA)	Tubular 15/1 – 240	Tubular 15/1 – 352
Length (mm)	13.5 -15.6	235 - 240	344 -352
Hole diameter (mm)	0.50 - 0.70	1.50 - 1.6	1.85 -2.0
Web thickness(mm)	1.1 -1.25	1.45 -1.55	1.45 -1.55
Total volatiles (%)	≤ 3.7	≤ 3.5	≤ 3.8
External moisture (%)	1.0 -1.8	1.0 -1.6	1.0 -1.8
Residual solvent (%)	≥ 1	≥ 1.3	≥ 1.3
Stability at 134.5 °C	≥ 40	≥ 40	≥ 40

BALLISTIC SPECIFICATIONS

Type of propellant	HE	HEAT	APFSDS (BM42)
Total charge (gr)	~ 5200	~ 5200	~ 8200
Average Velocity (m/s)	850 ± 7	905 ± 7	1700
Std. dev. of Velocity (m/s)	3	3	≤ 6.5
Average pressure at 15° (kg /cm²)	≤ 3500	≤ 3000	≤ 4350
Average pressure at +63°C	≤ 4050	3500	5200