



12.7×108 mm (Dushka)



General

Single base seven perforated cylindrical grain contains Nitrocellulose (NC), Diphenylamine (DPA), Dibutyl Phthalate (DBP) and Potassium Salt. It is glazed with graphite. This propellant is used in 12.7 ×108 cartridges for DShK machine gun.



PROPELLANT AND
HIGH EXPLOSIVES

TECHNICAL SPECIFICATIONS

Length	3.25 ± 0.15 mm
Diameter	2.2 ± 0.2 mm
Hole diameter	0.2 ± 0.05 mm
Web thickness	0.4 ± 0.05 mm
Graphite	≥ 0.4 %
Ash	≥ 0.4 %
Residue Solvent	≥ 0.6 %
External Moisture	1.0-1.8 %
Total Volatile	≥3.5 %
Stability at 134.5 °C	≥ 60 min

BALLISTIC SPECIFICATIONS

Total charge	~ ? gr
Average Velocity (HEI)	828 ± 7 m/s
Std. dev. of velocity	≥ 8 m/s
Average Pressure \times at +21°C	≥3200 bar
Pressure \times of single round at 21°C, +71°C and -33°C	≥ 3500 bar

14.5×114 mm

General

Single base seven perforated propellant cylindrical grain (5/7) contains Nitrocellulose (NC), Diphenylamine (DPA) and additives. It is glazed with graphite. This propellant is used in 14.5×114mm cartridges for 14.5mm machine gun.



TECHNICAL SPECIFICATIONS

Length	2.9-3.8 mm
Hole diameter	0.16 – 0.24 mm
Outer web thickness	0.45 - 0.75 mm
Inner web thickness	0.3 - 0.6 mm
Diphenylamine (DPA)	1-2 %
Heat of explosion	900-1000 cal/gr
Moisture and volatile	0.75 – 1.5 %
Stability at 134.5 °C	≥ 60 min

BALLISTIC SPECIFICATIONS

Total charge	~ 30 gr
Average Velocity (HEI)	980 ± 20 m/s
Std. dev. of velocity	≤ 7 m/s
Average Pressure \times at +21°C	≤ 3600 bar
Max. Pressure of single round	≤ 3800 kg/cm ²