



12.7×99 mm



General

Application: propellant for 12.7 ×99 cartridge for 0.50 caliber machine gun and sniper rifle.

Packaging: Ball powder (12.7 ×99mm) is packed in seal metal drum or fiber drum and packages are placed on pallet in Shrinkage form. Net weight of each drum is 40 kg.

Storage: Ball powder (12.7×99mm) should be stored in -10°C up to +30°C.

Shelf life: 20 years

TECHNICAL SPECIFICATIONS

	Machine gun	Sniper
Charge (gr)	14.5 ± 0.5	14 ± 0.5
Projectile mass (gr)	45 ± 0.5	42.5 ± 0.5
Muzzle velocity (m/s)	887 ± 7	860 ± 6
Standard Deviation of velocity (m/s)	Max.8	Max. 7
Average pressure (bar)	Max. 3650	Max. 3400
Average Grain Diameter (mm)	0.7 ± 0.1	0.75 ± 0.1
Appearance density (g/lit)	920 - 960	900 - 950
Stability at 120 °C (min)	Min. 60	Min. 60
Moisture & Volatile(%)	Max. 1.25	Max. 1.25



12.7×108 mm

General

Application: propellant for 12.7×108mm cartridge for DShK machine gun.

Packaging: Ball powder (12.7×108mm) is packed in seal metal drum or fiber drum and packages are placed on pallet in Shrinkage form. Net weight of each drum is 40 kg.

Storage: Ball powder (12.7×108mm) should be stored in -10°C up to +30°C.

Shelf life: 20 years

TECHNICAL SPECIFICATIONS

Charge	16-18 gr
Projectile mass	46 ± 1 gr
Muzzle velocity	828 ± 7 m/s
Standard Deviation of velocity	10 m/s
Average Pressure	Max. 3200 bar
Average Grain Diameter	0.8 ± 0.1 mm
Appearance density	Min. 900 g/lit
Stability at 120 °C	Min. 60 min
Moisture & Volatile	Max. 1.25 %

