



General

Application: propellant for 9mm pistol cartridge for Parabelum SIG 'S&W 'CZ 99 'Beretta and equivalent pistol and tommy gun.

Packaging: Ball powder (9 ×19mm) 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 (9 ×19mm) should be stored in -10°C up to +30°C.

Shelf life: 20 years

TECHNICAL SPECIFICATIONS	
Charge	0.37-0.4 gr
Projectile mass	8 ± 0.1 gr
Muzzle velocity	385 ± 6 m/s
Standard Deviation of velocity	8 m/s
Average pressure	Max. 2350 bar
Average Grain Diameter	0.45 ± 0.05
Appearance density	960-970 g/lit
Stability at 120 °C	Min. 60 min
Moisture & Volatile	Max. 1.25 %





12.7×77 mm

General

Application: Propellant for 12.7×77mm cartridges for M8C spotting rifle (or equivalent) of 106mm guns.

Packaging: Ball powder (12.7×77mm) 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 (12.7×77mm) should be stored in -10°C up to +30°C.

Shelf life: 20 years

TECHNICAL SPECIFICATIONS Charge 7-7.7 gr Projectile mass 53 ± 0.2 gr Muzzle velocity 538 ± 7 m/s Standard Deviation of velocity Max. 6 m/s Max. 2500 bar Average Pressure 0.7 ± 0.05 Average Grain Diameter Min 900 g/lit Appearance density Stability at 120 °C 60 min Moisture & Volatile Max. 1.25 %

