

مجمع الشجرة الصناعي - الزخيرة

AL-SHAGARA INDUSTRIAL COMPLEX

Excellence Award Winners



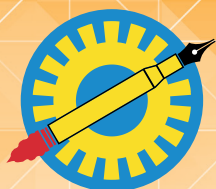
مِنظومة الصِّناعة الدِّفاعية

DEFENCE INDUSTRIES SYSTEM
SUDAN - MASAD - السودان

12.7×108 mm API Cartridges

Heavy machine gun armor-piercing incendiary cartridge, used against lightly-armored targets. Suitable for all 12.7×108mm weapons.





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Technical Specifications:		
Structure	Bullet	Bimetal jacket, steel core, lead sheath
	Case	Bimetal
	Primer	Non-corrosive, Berdan primer
	Propellant powder	Single base
Technical Parameters	Cartridge length	77mm
	Cartridge weigh	22.45g
	Bullet weight	9.6g
	Initial velocity	$V_{25} = 820 \sim 835\text{m/s}$
	Maximum chamber pressure	$P_{m(55)} \leq 295\text{MPa}$
	Density	Target distance of 300m : $R_{50} \leq 19\text{cm}$
	Penetration performance	Target distance of 100m, penetration 20mm-thick armor plate, penetration effectiveness > 90%
Matching Firearms	Incendiary performance	Target distance of 70m, penetration 15mm-thick armor plate, incendiary effectiveness > 80%
	Heavy machine gun	12.7mm anti-aircraft type 54 heavy machine gun
Effective range		700m
Packaging		
Packing	Ordinary packing	1. 5 rounds / plastic package, 150 rounds / wooden case, gross weight: 22.4kg / wooden case
		2. 5 rounds / plastic package, 150 rounds / wooden case, gross weight: 21.18kg / wooden case
		3. 5 rounds / plastic package, 175 rounds / wooden case, gross weight: 10.85kg / wooden case
Volume of packing	Ordinary packing	1. (length × width × height): (0.48×0.38×0.13)m 0.0237m ³ (wooden case)
		2. (length × width × height) : (0.48×0.38×0.13)m 0.0237m ³ (wooden case)
		3. (length × width × height) : (0.46×0.19×0.13)m 0.0114m ³ (wooden case)