

12.7 x 108 mm, APIT

Sniper ammunition

Full metal jacket bullet, steel/lead-antimony core/incendiary mixture/tracer mixtures.

For military applications. UN transport classification UN0300, 1.4G

Dimensions and weight

• Maximum round overall length	147 mm
• Bullet length, max	64.5 mm
• Case length, max	108 mm
• Round weight, approx.	129 g
• Bullet weight	44 ±0.8 g

Powder charge

• Type	Spherical double base or cylindrical multiperforated single base propellant
• Weight	14.5-16.5 g (depending on propellant type)

Cartridge

• Average velocity at 24m, 21±2°C, standard proof barrel of 1008 mm length	810-825 m/s
• Range of experimental velocities for the testing group of rounds	30 m/s
• Maximum average case mouth pressure (piezo), standard proof barrel of 1008 mm length, at 21°C, -54°C and 52°C	≤3400 bar
• Maximum individual case mouth pressure (piezo), standard proof barrel of 1008 mm length, at 21°C, -54°C and 52°C	≤3600 bar
• Precision, target at 100 m, standard proof barrel of 1008 mm length, average mean radius	≤60 mm
• Penetration, complete, for minimum 90% of rounds in testing group, 90° angle of incidence, armor plate at 100m from muzzle –armor plate thickness 15 mm	
• Incendiary performance (according to the NATO MOPI AEP-97 EDAV1) The bullet shall ignite and produce an incendiary flash in less than 600mm behind an aluminum/mild steel target of 2mm nominal thickness placed at 100 meters from the muzzle, normal to the line of fire.	
• Tracer performance Tracer performance for minimum 80% of rounds in testing group:	
- Visible by, max	≤250
- Continuous visibility, min	≥1000
• Bullet extraction force	2000 - 5500 N
• Waterproofness, testing by bullet velocity (at 24m) of cartridges prior submerged in water during 24 hours difference of average wet velocity and average velocity of non-treated cartridges shall be ≤ 20 m/s, with all bullets clearing the bore	
• Operating temperature	-54 to +52 °C
• Storage temperature	-10 to +35°C (with daily temperature differences less than 10°C)
• Functioning	Cartridges function all specified weapons without casualty at 21°C, -54°C and +52°C
• Shelf life under storage conditions, minimum, years	15

Round elements

• Case material	Brass 70/30
• Bullet jacket material	Steel plated with gilding metal
• Core material	Steel core enveloped with lead/antimony alloy (with incendiary in tip and tracer at bottom of the bullet))
• Primer type, model	Berdan type, non- corrosive, non-mercury

Packaging (suggested, can vary according to the specific requirements)

• Type	104 rounds in the metal sheet box, 70 boxes (7280 rounds) on the pallet
• Packages dimensions	Metal box: 310x165x156 mm; pallet: 1140x760x920 mm
• Box/pallet gross weight	Metal box: approx. 16.3 kg; pallet: approx. 1151 kg
• Box/pallet volume	Metal box: 7.98 dm ³ ; pallet: 797.1 dm ³

