

12.7 x 108 mm ball ammo cartridges

Ball / B32API / BZT44 API / AP / Tracer / M33 SNIPER

The **12.7x108 mm** cartridge is a 12.7 mm heavy machine gun and anti-materiel rifle cartridge. It is used in the same roles as the NATO .50 BMG (12.7x99 mm NATO) cartridge. The 12.7x108 has a slightly different bullet shape and weight, with a longer casing.

It is used to engage targets up to 2000 m away. Targets include enemy personnel, vehicles (light armor to no armor), troop transports, fortified positions, and aircraft. Variants include standard ball, armor piercing incendiary, armor piercing incendiary with tracer, armor piercing, tracer, and sniper.



12.7x108 mm	12.7x108 mm	12.7x108 mm	12.7x108 mm	12.7x108 mm	12.7x108 mm
Brass	Brass	Brass	Brass	Brass	Brass
FMJ / SC	FMJ / SC	FMJ / SC	FMJ / SC	FMJ / SC	FMJ / SC
(Steel Core)	(Steel Core)	(Steel Core)	(Steel Core)	(Steel Core)	(Steel Core)
BALL	B32API	BZT44 API	AP	Tracer	M33 SNIPER

Packing				
Caliber, mm	Version 1	Version 2	Version 3	Version 4
12.7 x 108 mm (Ball / B32 API / BZT44 API / AP / Tracer)	- 104 rds. in sheet metal box - 2 sheet metal boxes (208 rds.) in wooden crate	- 50 rds. in one DShK belt - 1 DShK belt in one metal box (50 rds.) - 2 metal boxes in wooden crate (100 rds.)	- 10 rds. in cardboard box - 5 cardboard boxes (50 rds.) in PVC bag - 2 PVC bags (100 rounds) in carton case	- 60 rds. in one DShK belt - 1 DShK belt in one DShK function metal box (60 rds.) - 3 DShK function metal boxes in wooden crate (180 rds.)
12.7 x 108 mm (M33 SNIPER)	- 104 rds. in sheet metal box - 2 sheet metal boxes (208 rds.) in wooden crate	- 10 rds. in cardboard box - 5 cardboard boxes 150 rds.) in PVC bag - 2 PVC bags (100 rds.) in carton case	-	-

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Caliber, mm	12.7 x 108 mm	12.7 x 108 mm	12.7 x 108 mm	12.7 x 108 mm	12.7 x 108 mm	12.7 x 108 mm
Designation	Ball (FMJ)	B32 API (Armor Piercing Incendiary)	BZT44 API (Armor Piercing Incendiary Tracer)	AP Armor Piercing	Tracer	M33 SNIPER
Bullet type	FMJ/SC Tombac jacket + steel core	FMJ/SC Tombac jacket + steel core Armor Piercing Incendiary	FMJ/SC Tombac jacket + steel core Armor Piercing Incendiary Tracer	FMJ/SC Tombac jacket + steel core Armor Piercing	FMJ/SC Tombac jacket + steel core Tracer	FMJ/SC Tombac jacket + steel core
Bullet (projectile) weight, g/grains	48 g / 740 grain	44 g / 679 grain	48 g / 740 grain	48 g / 740 grain	44 g / 679 grain	48 g / 755 grain
Length, mm/in	64.6 mm / 2.5 in	64 mm / 2.5 in	64.5 mm / 2.53 in	64.6 mm / 2.5 in	64.5 mm / 2.53 in	64 mm / 2.5 in
Primer type	"Berdan"	"Berdan"	"Berdan"	"Berdan"	"Berdan"	"Berdan"
Average bullet velocity, (m/s) / (fps)	810-825 m/s / 2657- 2707 fps	810-825 m/s / 2657- 2707 fps	810-825 m/s / 2657- 2707 fps	810-825 m/s / 2657- 2707 fps	810-825 m/s / 2657- 2707 fps	810-825 m/s / 2657- 2707 fps
Average chamber pressure, MPa/PSI	max 304 MPa / 44,091 PSI	max 304 MPa / 44,091 PSI	max 304 MPa / 44,091 PSI	max 304 MPa / 44,091 PSI	max 304 MPa / 44,091 PSI	max 304 MPa / 44,091 PSI
Tracer visibility, m	-	not less than 1000 m	not less than 1200 m	-	-	-
Tracer mix	-	tracer composition	tracer composition	-		
Filler, point	borax	thermite composition	thermite composition	borax	borax	borax
Penetration at 100m, mm/in	-	22 mm / 0.86 in thick armor plate (321-375 HB)	15 mm / 0.59 in thick armor plate (321-375 HB)	22 mm / 0.86 in thick armor plate (321-375 HB)		
Incendiary ignite cloth soaked in petrol behind armor plate, 70 m	-	15 mm / 0.59 in thick armor plate (321-375 HB)	15 mm / 0.59 in thick armor plate (321-375 HB)		-	-

Weapons – Heavy Machine Gun

6P62, Afanasev A-12.7 / **DShK** / NSV / Kord / Type 77 / QJC-88 / QJZ-89 / QJZ-171 / Zastava M02 Coyote / Yak-B 12.7mm Gatling gun / Zastava M87