

.50 CAL (12.7 MM) POLYMER-CASED AMMUNITION DATA



Nammo MAC's .50 Caliber (12.7 mm) polymer-cased ammunition is lightweight and compatible with all .50 caliber machine guns and rifles.* The Cartridge is a drop-in replacement for legacy brass-cased ammunition.

The .50 caliber polymer-cased ammunition is in use with USMC, SOCOM, and International forces.

*Including but not limited to: M2HB, M3 variants, XM-806, GAU-19A/B, GAU 21, and Barrett M107, M82, bolt rifles.



BENEFITS

Providing nearly 30% weight savings over brass, polymer-cased ammunition improves accuracy by reducing standard deviations in velocity and pressure performance, while insulating the chamber from heat caused by the ballistic event eliminating the likelihood of a cook-off (thermally induced firing).

PROJECTILES / CONFIGURATIONS AVAILABLE

M33, M17	Ball, Ball-T
M8, M20	API, API-T
MP (MK211)	AP, HE, I
MK257	API-DT
SG	Special Grade
Custom	Precision/customer spec

TABULATED DATA

Weight:	90-94 g
Length:	5.45 in (138.4 mm)
Propellant	U.S.-qualified propellant
INTERNAL BALLISTICS PERFORMANCE	
Base spec:	MIL-DTL-17014A0001
Pressure:	Typ.: 55,000 psi (3,800 bar) Max: 63,000 psi (4,300 bar)
Velocity:	2,905 fps (885 m/s) – 36 in brl

SHIPPING AND STORAGE DATA

Class:	1.4S (ball, frangible) 1.4G (API, API-T) 1.2.2 (multi-purpose)
Dot:	Small arms ammunition

ITAR license required

SPECIFICATIONS

With polymer links, the hybrid/metal design saves approximately 84 lbs (38 kg) per standard 1,200-round magazine loading. Compatible with all standard and non-standard .50 Caliber projectiles.

MK211 .50 CALIBER MULTI-PURPOSE POLYMER-CASED AMMUNITION

SPECIFICATIONS

Matches the performance specified in STANAG 4383, MIL-DTL-17014A0001

CARTRIDGE

Type:	MP
Length:	138.4 mm
Mass:	90–94 g

PROJECTILE

Type:	Multi-purpose (high explosive, armor-piercing, incendiary)
Jacket:	Brass CuZn10
Core:	Heavy metal
Point filler:	Incendiary
High explosive:	Comp A-4
Incendiary:	Sirconium
Closure disc:	Lead
Length:	58.7 mm
Mass:	~43 g
Identification:	Green tip

CASE

Material:	Polymer
Length:	99.3 mm
Mass:	~36 g

PACKAGING (TYPE I)

Type:	Metallic, watertight (M2A2)
Contents:	100 cartridges, linked
Gross weight:	~12.25 kg
Volume:	0.009 m ³
Dimensions:	305 x 155 x 190 mm
UN number:	UN 0009
IMCO:	1.2 G
Explosive weight:	~1.6 kg

PALLETIZING (TYPE I)

Quantity:	96 metallic boxes M2A2 48 wirebound boxes
Weight:	~1,350 kg
Volume:	1.42 m ³

Packaging and marking can also be in accordance with customer specification.

All packing in accordance with MIL-STD and STANAG.

PRIMER

Type:	Boxer #35
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PROPELLANT

Type:	SMP 860
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Mass:	~14 g
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BALLISTIC DATA

Velocity (V24)	~903 m/s
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Chamber pressure:	P+3 SD ≤450 MPa
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Action time at -54°C:	t+5 SD ≤4.5 ms
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Range:	Max 6,099 m
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Waterproof:	Absolute
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Piercing at 100 m (requirement):	10.6 mm steel 321–375 HB at 45°
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Piercing at 1,000 m (actual):	10.6 mm steel 321–375 HB at 30°
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Incendiary at 200 m:	Less than 600 mm behind a 2 mm aluminum 2024T3 target plate
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Explosive effect at 200 m:	Minimum 8 perforations in 1.25 mm steel witness plate
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Tracer function:	N/A
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Accuracy (requirement):	H+V SD <300 mm at 550 m
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Accuracy (actual):	H+V SD 70–100 mm at 550 m
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PACKAGING (TYPE II)

Type:	N/A
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Contents:	N/A
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Gross weight:	N/A
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Volume:	N/A
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Dimensions:	N/A
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UN number:	N/A
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IMCO:	N/A
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Explosive weight:	N/A
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PALLETIZING (TYPE II)

Quantity:	N/A
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Weight:	N/A
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Volume:	N/A
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