

DENEL PMP

SMALL CALIBRE MILITARY AMMUNITION

9 x 19mm AMMUNITION			
DESCRIPTION	BALL (115 grain)	BALL (124 grain)	SUB-SONIC
Maximum Overall Length	28,8mm	28,8mm	28,8mm
Weight Complete Round	11,7g	12,3g	11,6g
Bullet	Core : Lead-Antimony Jacket : 90/10 Cu Alloy Mass : 7,02g - 8,13g	Core : Lead-Antimony Jacket : 90/10 Cu Alloy Mass : 7,94g - 8,14g	Core : Lead-Antimony Jacket : 90/10 Cu Alloy Mass : 7,02g - 8,13g
Case	Brass 70/30	Brass 70/30	Brass 70/30
Primer	Non-Corrosive Berdan / Boxer Type	Non-Corrosive Berdan / Boxer Type	Non-Corrosive Berdan / Boxer Type
Propellant Powder	Double-Base	Double-Base	Double-Base
Mean Velocity (V)	401,3 ± 15 m/s	401,3 ± 15 m/s	340 ± 15 m/s
Mean Chamber Pressure (Piezo)	≤ 215 MPa	≤ 215 MPa	≤ 215 MPa
Accuracy (Mean Radius)	≤ 76,2mm at 46m	≤ 76,2mm at 46m	≤ 76,2 mm at 46m

PACKAGING		
	BALL / SUB-SONIC – UNLINKED	
DESCRIPTION	PLASTIC CASE (8217)	STEEL CASE (M2A1)
Rounds / Carton Box	25	50
Carton Boxes / PVC Bag	16	-
PVC Bags / Case	8	-
Carton Boxes per case	-	24
Rounds / case	3 200	1 200
Rounds / 6m Sea Container (not palletised)	1 622 400 (507 Cases)	-
Rounds/6m Sea container (palletized)	1 433 600 (14 Pallets)	1 382 400 (16 Pallets)

Special Packing and Marking can be negotiated according to customer requirement.

7,62 x 39mm AMMUNITION

DESCRIPTION	BALL
Specification	PMP 64/1982
Tip Colour	n/a
Bullet	Core: Lead-Antimony Jacket: 90/10 Cu Alloy Mass: 7,91g-8,03g
Case	Brass 70/30
Primer	Non-Corrosive Berdan Type
Propellant Powder	Double-Base
Mean Velocity (V)	695 ± 8 m/s
Mean Chamber Pressure (Rad Cu)	≤ 320Mpa
Accuracy (Mean Radius)	≤ 60mm at 100m ≤ 130mm at 200m

PACKAGING

Description	UNLINKED	
	BALL	
	Plastic Case (8217)	Steel Case (M2A1)
Rounds / Carton Box	25	25
Carton Boxes / PVC Bag	8	-
PVC Bags/Case	9	-
Carton box / Case	-	-
Rounds/case	1 800	900
Rounds / 6m Sea Container (not palletized)	1 080 000	-
Rounds / 6m Sea Container (palletized)	979 200	972 000

Special Packing and Marking can be negotiated according to customer requirement.

5,56 x 45mm AMMUNITION

DESCRIPTION	BALL (M193)	TRACER (M196)	BALL (SS109 / M855)	BLANK (M200)
Specification	Mil-C-9963	Mil-C-60111	Mil-C-63989	Mil-C-60616
Max Overall Length	57,4mm	57,4mm	57,4mm	54,2mm
Weight Complete Round	12,0g	12,0g	12,5g	7,5g
Tip Colour	-	Red	Green	White
Bullet	Core: Lead-Antimony Jacket: 90/10 Cu Alloy Mass: 3,50g – 3,62g	Core: Lead-Antimony Jacket: 90/10 Cu Alloy Mass: 3,46g – 3,58g Tracer Composition	Core: Steel and Lead Jacket: 90/10 Cu Alloy Mass: 3,92g – 4,08g	-
Case	Brass 70/30	Brass 70/30	Brass 70/30	Brass 70/30
Primer	Non-Corrosive Berdan / Boxer Type	Non-Corrosive Berdan / Boxer Type	Non-Corrosive Berdan / Boxer Type	Non-Corrosive Berdan / Boxer Type
Propellant Powder	Double-Base	Double-Base	Double-Base	Double-Base
Mean Velocity (V)	964± 12 m/s	950 ± 12 m/s	914 ± 12 m/s	-
Mean Chamber Pressure (Piezo)	≤ 379 MPa	≤ 379 MPa	≤ 379 MPa	-
Accuracy (Mean Radius)	≤ 50,8mm at 183m	≤ 127mm at 183m	≤ 45,7mm at 183m	-
Tracing Distance	-	≥ 450m	-	-
Linked Ammunition	Any sequence as requested			Blanks only

PACKAGING

DESCRIPTION	UNLINKED				LINKED			
	BALL (M193/SS109) / TRACER		BLANK		BALL (M193/SS109) / TRACER		BLANK	
	PLASTIC CASE (8217)	STEEL CASE (M2A1)	PLASTIC CASE (8217)	STEEL CASE (M2A1)	PLASTIC CASE (7815) (7716)	STEEL CASE (M2A1)	PLASTIC CASE (7815) (7716)	STEEL CASE (M2A1)
Rounds / belt	-	-	-	-	200	200	200	200
Belt / case	-	-	-	-	2 (7815)	4(M2A1)	2 (7815)	4 (M2A1)
Case (7815) / case (7716)	-	-	-	-	5	-	5	-
Rnds/Carton Box	30	20	30	20	-	-	-	-
Carton Boxes / PVC Bag	10	-	10	-	-	-	-	-
PVC Bags/Case	9	-	9	-	-	-	-	-
Carton Boxes / Case	-	40	-	40	-	-	-	-
Rounds / Case	2 700	800	2 700	800	2 000	800	2 000	800
Rounds / 6m Sea Container (not palletized)	1 512 000 (560 Cases)	-	2 394 900 (887 Cases)	-	1 196 000 (598 Cases)	-	1 252 000 (626 Cases)	-
Rounds / 6m Sea Container (palletized)	1 382 400 (16 Pallets)	1 209 600 (21 Pallets)	1 728 000 (20 Pallets)	1 670 400 (29 Pallets)	960 000 (20 Pallets)	1 088 700 (19 Pallets)	1 728 000 (20 Pallets)	1 497 600 (26 Pallets)

Special Packing and Marking can be negotiated according to customer requirement.

7,62 x 51mm AMMUNITION

DESCRIPTION	BALL (M80)	TRACER (M62)	BLANK (M82)
Specification	Mil-C-46931	Mil-C-46281	Mil-C-46933
Maximum Overall Length	71,12mm (Boxer)	71,12mm	68,2mm
Tip Colour	-	Red	White
Bullet	Core: Lead-Antimony Jacket: 90/10 Cu Alloy Mass: 9,17g-9,36g	Core : Lead Antimony Jacket: 90/10 Cu Alloy Mass : 8,94g-9,20g Tracer Composition	-
Case	Brass 70/30	Brass 70/30	Brass 70/30
Primer	Non-Corrosive Berdan / Boxer Type	Non-Corrosive Berdan / Boxer Type	Non-Corrosive Berdan / Boxer Type
Propellant Powder	Single or Double-Base	Single or Double-Base	Double-Base
Mean Velocity (V)	834 ± 9 m/s	817 ± 9 m/s	-
Mean Chamber Pressure (Piezo)	≤ 365 Mpa	≤ 365 MPa	-
Accuracy (Mean Radius)	≤ 127mm at 549m	≤ 381mm at 549m	-
Tracing Distance	-	≥ 777m	-
Linked Ammunition (M13; Browning; Vickers)	Any sequence as requested		Blanks only

PACKAGING

DESCRIPTION	UNLINKED				LINKED (M13)			
	BALL / TRACER		BALL / TRACER		BALL / TRACER		BLANK	
	PLASTIC CASE (8217)	PLASTIC CASE (7815)(7716)	STEEL CASE (H84)(Wooden box)	PLASTIC CASE (7815)(7716)	PLASTIC CASE (7815)(7716)	STEEL CASE (H84)(Wooden box)	PLASTIC CASE (7815)(7716)	STEEL CASE (H84)(Wooden box)
Rounds / belt	-	-	-	-	200	200	200	200
Belts / case	-	-	-	-	1 (7815)	1 (H84)	1 (7815)	1 (H84)
Cases/outer case	-	-	-	-	5 (7716)	4 (wooden box)	5 (7716)	4 (wooden box)
Rounds / Carton Box	20	20	20	20	-	-	-	-
Carton Boxes / PVC Bag	7	-	7	-	-	-	-	-
PVC Bags/Case	9	-	9	-	-	-	-	-
Carton box / Case	-	20	-	20	-	-	-	-
Rounds/case	1 260	400	1 260	400	1 000	800	1 000	800
Rounds / 6m Sea Container (not palletized)	788 760 (626 Cases)	-	1 146 600 (910 Cases)	-	626 000 (626 Cases)	-	626 000 (626 Cases)	-
Rounds / 6m Sea Container (palletized)	725 760 (18 Pallets)	604 800 (21 Pallets)	806 400 (20 Pallets)	864 000 (30 Pallets)	480 000 (20 Pallets)	468 000 (13 Pallets)	480 000 (20 Pallets)	576 000 (16 Pallets)

Special Packing and Marking can be negotiated according to customer requirement.

12,7 x 99mm AMMUNITION

DESCRIPTION	BALL (M33)	TRACER (TYPE M33)	AP (M2)	API (M8)	API-T (M20)
Specification	Mil-C-10190	Mil-C-1318	Mil-C-3066	Mil-C-3066	Mil-C-3066
Max Overall Length	138,43mm	138,43mm	138,43mm	138,43mm	138,43mm
Tip Colour	-	Red	Black	Silver	Silver / Red
Bullet	Core: Steel Tip: Borax Jacket: 90/10 Cu Alloy Mass: 41,60g - 43,22g	Core: Steel Tip: Borax Jacket: 90/10 Cu Alloy Mass : 38,5g-40,0g Tracer Composition	Core : Steel Tip : Bariumnitrate Jacket: 90/10 Cu Alloy Mass : 40,99g-42,26g Tracer Composition Incendiary Composition	Core: Steel Jacket : 90/10 Cu Alloy Mass : 41,18g-42,93g Incendiary Composition	Core: Steel Jacket: 90/10 Cu Alloy Mass : 38,49g-40,11g Incendiary Composition Tracer Composition
Case	Brass 70/30	Brass 70/30	Brass 70/30	Brass 70/30	Brass 70/30
Primer	Non-Corrosive Boxer/Berdan Type	Non-Corrosive Boxer/Berdan Type	Non-Corrosive Boxer/Berdan Type	Non-Corrosive Boxer/Berdan Type	Non-Corrosive Boxer/Berdan Type
Propellant Powder	Double-Base	Double-Base	Double-Base	Double-Base	Double-Base
Mean Velocity (V)	887 ± 10m/s	872 ± 12m/s	887 ± 10m/s	887 ± 10m/s	887 ± 10m/s
Mean Chamber Pressure (Piezo)	≤ 379 MPa	≤ 372 MPa	≤ 379 MPa	≤ 379 MPa	≤ 379 MPa
Accuracy (Mean Radius)	≤ 260mm at 500m	≤ 434mm at 500m	≤ 260mm at 500m	≤ 260mm at 500m	≤ 260mm at 500m
Tracing Distance	-	≥ 1 460m	-	-	≥ 1 460m
Penetration	-	-	22mm Armour Plate RB 390 at 91m Complete Perforation	22mm Armour Plate RB 390 at 91m with Incendary Effect	22mm Armour Plate RB 390 at 91m with Incendary Effect
Incendiary Flash	-	-	-	-	-
Linked Ammunition	Any sequence as requested				

PACKAGING

DESCRIPTION	UNLINKED		LINKED	
	BALL (M193/SS109) / TRACER BLANK		BALL (M193/SS109) / TRACER BLANK	
	PLASTIC CASE (8217)	STEEL CASE (M2A1)	PLASTIC CASE (8315)	STEEL CASE (M2A1)
Rounds / belt	-	-	100	100
Belts / Case	-	-	3	1
Rounds / case	180	70	300	100
Rounds / 6m Sea Container (not palletized)	135 900 (755 Cases)	-	141 900 (473 Cases)	-
Rounds / 6m Sea Container (palletized)	115 200 (20 Pallets)	115 920 (23 Pallets)	96 000 (10 Pallets)	129 600 (18 Pallets)

Special Packing and Marking can be negotiated according to customer requirement.