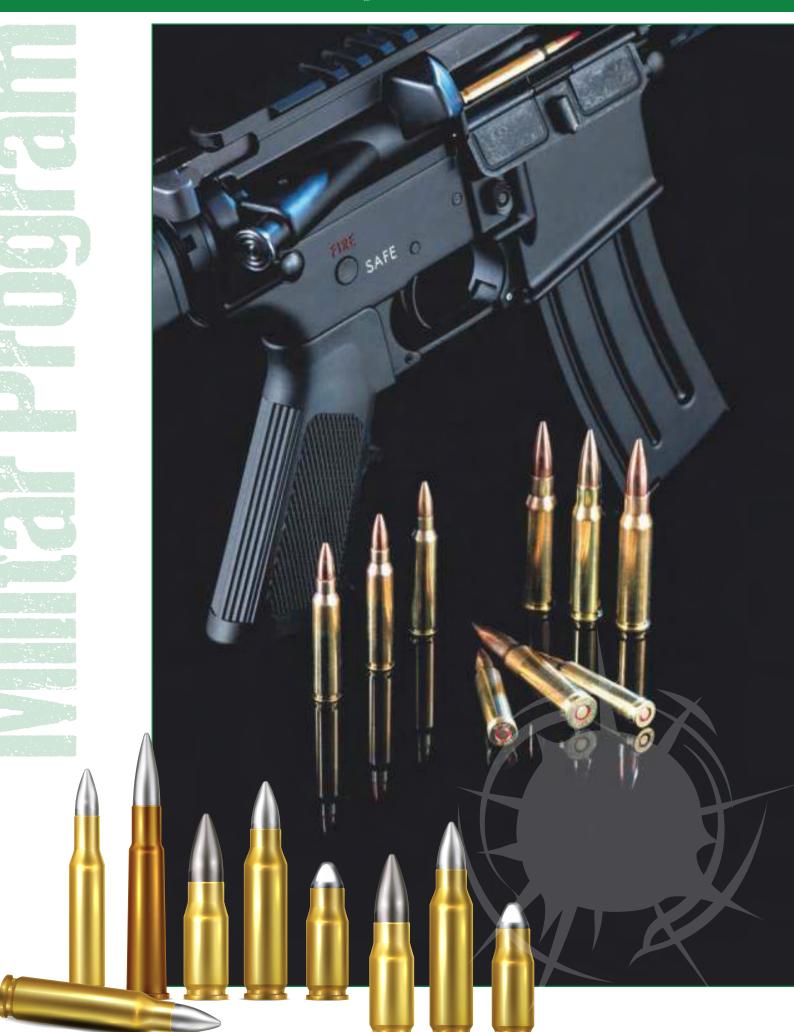


Military Program



Military Program

Solid Soli						
\$5.56 x 4.5 mm BALL MSS 109 Rifle cartridge with add carb multist leave and marked constraints. \$40 cm and state carb multist leave and marked constraints. \$40 cm and state carb multist leave and marked constraints. \$40 cm and state carb multist leave and marked constraints. \$40 cm and state carb multist leave and marked constraints. \$40 cm and state carb multist leave and state carb multist. \$40 cm	CALIBER	BULLET TYPE	BULLET MASS	CARTRIGE MASS	PRIMER	TEMPERATURE Interval
5.56 x 45 mm BALL M93 Mile cartifige BALL S.56 g S.56 x 45 mm BALL M93 Mile cartifige BALL S.56 g S.56 x 45 mm BALL M93 Mile cartifige BALL S.56 g S.36 g S.36 g S.56 x 45 mm BALL M93 Mile cartifige BALL S.56 g S.36 g S.56 x 45 mm BALD FRACER M95 Mile cartifige BALL S.56 x 45 mm BALD FRACER L10 Mile cartifige Mil		BALL		12,1 g		-54oC +52oC
5.56 x 4.5 mm PATO TRACER NB56 of three relinder with bead antimous healted ball. 5.56 x 4.5 mm RATO TRACER NB56 of three relinder ball. 5.56 x 4.5 mm RATO TRACER NB56 of three relinder ball. 5.56 x 4.5 mm RATO TRACER L110 Rife cartridge with ball ball. 5.56 x 4.5 mm BLANK M200AT (tong) Rife cartridge with ball ball. 5.56 x 4.5 mm BLANK M200AT (tong) Rife cartridge with ball ball. 5.56 x 4.5 mm 223 Remington MATCH HP BT ALS B B B B B B B B B B B B B B B B B B B	5,56 x 45 mm BALL M855 Rifle cartridge with steel core bullet	BALL		12,1 g		-54oC +52oC
Solic x 45 mm NATO TRACER NITE eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge without builds Solic x 45 mm BLANK M200 Rifle eartridge with BALL Solic x 45 mm 223 Remington MATCH Solic x 44 mm 223 Remington MATCH Solic x 45 mm 223 Remington MATCH Solic x	5,56 x 45 mm BALL M193 Rifle cartridge with lead-antimony bullet	BALL		11,8 g		
5.56 x 45 mm BLANK M200 Rifle cartridge without builtet 6.9 g Small rifle, Non corrosive, Non mercuric, 20°C Boxer 7.2 g Small rifle, Non corrosive, Non mercuric, 20°C Boxer 7.2 g Small rifle, Non corrosive, Non mercuric, 20°C Boxer 5.56 x 45 mm BLANK M200 MATCH MATC		BALL		12,1 g	Boxer	-54oC +52oC
5.59 x 45 mm BLANK M2004 Italian Riffle cartridge with buillet S.59 c x 5 mm BLANK M2004 Italian Riffle cartridge with buillet S.50 x 45 mm BLANK M2004 Italian Riffle cartridge with buillet S.50 x 45 mm BLANK M2004 Riffle cartridge with buillet S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 45 mm BLANK M2004 Riffle cartridge with BALL S.50 x 50 x	5,56 x 45 mm NATO TRACER L110 Rifle cartridge with tracer bullet	BALL		12,1 g		-54oC +52oC
1.2 g Boxer 5.5° c 5.5				6,9 g		-20°C +52°C
Section Sect	5,56 x 45 mm BLANK M200A1 (Long) Rifle cartridge without bullet			7,2 g		-20°C +52°C
The state of the	5,56 x 45 mm 223 Remington MATCH			12,5 g		-20°C +52°C
7,62 x 51 mm NATO TRACER M62 Rifle cartridge with lead/antimony core bullet TRACER 7,62 x 51 mm NATO TRACER M62 Rifle cartridge with lead/antimony core bullet TRACER TRACER 145 gr 145 gr 24 g Large rifle, Non corrosive, Non mercuric Berdan (A-532), Boxer (A-412) +52°C T,62 x 51 mm SUBSONIC Rifle cartridge with lead/antimony core bullet Rifle cartridge with lead/antimony core bullet TRACER 12,96 g 24,8 g Large rifle, Non corrosive, Non mercuric Berdan (A-568), Boxer (A-548) +52°C T,62 x 51 mm NATO BLANK M92 Rifle cartridge with without bullet TRACER 12 g Large rifle, Non corrosive, Non mercuric Berdan (A-445), Boxer (A-4420) +52°C T,62 x 51 mm NATO MATCH M952 Rifle cartridge with BALL 10,9 g 25,5 g Large rifle, Non corrosive, Non mercuric Berdan (A-525), Boxer (A-430) +52°C T,62 x 51 mm NATO SNIPER M118 lead/antimony core bullet BALL 11,34 g 25,8 g Large rifle, Non corrosive, Non mercuric Berdan (A-526), Boxer (A-387) +52°C T,62 x 51 mm 308 Winchester MATCH HP BT 10,1 g 24,5 g Large rifle, Non corrosive, Non mercuric, Boxer T,62 x 51 mm 308 Winchester MATCH HP BT 12,3 g 27 g Large rifle, Non corrosive, Non mercuric, Boxer T,62 x 39 mm BALL M67 Rifle cartridge with BALL 8 g 123 gr T,62 x 39 mm BLANK Rifle cartridge with BALL 8 g 123 gr T,62 x 39 mm BLANK Rifle cartridge with BALL 8 g Large rifle, Non corrosive, Non mercuric, Boxer T,62 x 39 mm BLANK Rifle cartridge with BALL 8 g Large rifle, Non corrosive, Non mercuric, Boxer T,62 x 39 mm BLANK Rifle cartridge with BALL 8 g Large rifle, Non corrosive, Non mercuric, Boxer T,62 x 39 mm BLANK Rifle cartridge with BALL 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C	5,56 x 45 mm 223 Remington MATCH			12,9 g		-20°C +52°C
7,62 x 51 mm NATO BLANK M92 Rifle cartridge with lead/antimony core bullet T,62 x 51 mm NATO BLANK M92 Rifle cartridge with lead/antimony core bullet T,62 x 51 mm NATO BLANK M92 Rifle cartridge with lead/antimony core bullet T,62 x 51 mm NATO BLANK M92 Rifle cartridge with lead/antimony core bullet T,62 x 51 mm NATO BLANK M92 Rifle cartridge with lead/antimony core bullet T,62 x 51 mm NATO MATCH M852 Rifle cartridge with lead/antimony core bullet T,62 x 51 mm NATO SNIPER M18 lead/antimony core bullet T,62 x 51 mm NATO SNIPER M18 lead/antimony core bullet T,62 x 51 mm NATO SNIPER M18 lead/antimony core bullet T,62 x 51 mm NATO SNIPER M18 lead/antimony core bullet T,62 x 51 mm NATO SNIPER M18 lead/antimony core bullet T,62 x 51 mm NATO SNIPER M18 lead/antimony core bullet T,62 x 51 mm NATO SNIPER M18 lead/antimony core bullet T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 51 mm SOB Winchester MATCH HP BT T,62 x 39 mm BALL M67 Rifle cartridge with lead/antimony core bullet BALL	7,62 x 51 mm NATO BALL M80 Rifle cartridge with lead/antimony core bullet	BALL		24 g		-54°C +52°C
7,62 x 51 mm NATO BLANK M82 Rifle cartridge with without bullet 12 g Large rifle, Non corrosive, Non mercuric Berdan (A-548) 7,62 x 51 mm NATO BLANK M82 Rifle cartridge with 168 gr 7,62 x 51 mm NATO MATCH M852 Rifle cartridge with 168 gr 7,62 x 51 mm NATO MATCH M852 Rifle cartridge with 168 gr 7,62 x 51 mm NATO MATCH M852 Rifle cartridge with 168 gr 7,62 x 51 mm NATO MATCH M852 Rifle cartridge with 168 gr 7,62 x 51 mm NATO SNIPER M118 Rifle cartridge with 175 gr 7,62 x 51 mm NATO SNIPER M118 Rifle cartridge with 175 gr 7,62 x 51 mm NATO SNIPER M118 Rifle cartridge with 175 gr 7,62 x 51 mm NATO SNIPER M118 Rifle cartridge with 175 gr 7,62 x 51 mm NATO SNIPER M118 Rifle cartridge with 175 gr 7,62 x 51 mm NATO SNIPER M118 Rifle cartridge with 175 gr 7,62 x 51 mm 308 Winchester MATCH HP BT 10,1 g 24,5 g Large rifle, Non corrosive, Non mercuric, 54°C Boxer 7,62 x 51 mm 308 Winchester MATCH HP BT 12,3 g 27 g Large rifle, Non corrosive, Non mercuric, 20°C Boxer 7,62 x 39 mm BALL M67 Rifle cartridge with 18 RALL 8 g 17,4 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK Rifle cartridge with 18 BALL 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK Rifle cartridge with 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK Rifle cartridge with 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK Rifle cartridge with 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK Rifle cartridge with 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK Rifle cartridge with 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK Rifle cartridge with 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK Rifle cartridge with 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Boxer 7,62 x 39 mm BLANK	7,62 x 51 mm NATO TRACER M62 Rifle cartridge with lead/antimony core bullet	TRACER	, ,	24 g		-54°C +52°C
7,62 x 51 mm NATO BLANK M82 without bullet BALL 10,9 g 168 gr 25,5 g Large rifle, Non corrosive, Non mercuric Berdan (A-445), Boxer (A-420) 7,62 x 51 mm NATO MATCH M852 Rifle cartridge with BALL 11,34 g 17,5 gr 25,8 g Large rifle, Non corrosive, Non mercuric Berdan (A-525), Boxer (A-386) 7,62 x 51 mm NATO SNIPER M118 Rifle cartridge with BALL 11,34 g 17,5 gr 25,8 g Large rifle, Non corrosive, Non mercuric Berdan (A-526), Boxer (A-387) 7,62 x 51 mm 308 Winchester MATCH HP BT 10,1 g 10,1 g 10,1 g 10,2 gr 10,1 g 10,2 gr 10,2 x 51 mm 308 Winchester MATCH HP BT 11,3 g 20 g 11,4 g 123 gr 123 gr 124,5 g 125,8 g 125,8 g 125,9 g 126 grifle, Non corrosive, Non mercuric, some some some some some some some some		BALL		24,8 g	•	-54°C +52°C
7,62 x 51 mm NATO MATCH M852 lead/antimony core bullet BALL 168 gr 7,62 x 51 mm NATO SNIPER M118 lead/antimony core bullet BALL 11,34 g 175 gr 25,8 g Berdan (A-525), Boxer (A-386) +52°C 7,62 x 51 mm NATO SNIPER M118 lead/antimony core bullet BALL 11,34 g 175 gr 25,8 g Large rifle, Non corrosive, Non mercuric, Berdan (A-526), Boxer (A-387) Total corrosive, Non mercuric, Boxer 7,62 x 51 mm 308 Winchester MATCH HP BT MATCH 10,1 g 155 gr 24,5 g Large rifle, Non corrosive, Non mercuric, Boxer Total cartridge with lead/antimony core bullet Total cartridge with lead/antimony core bullet BALL 8 g 17,4 g 123 gr 17,4 g 18 Large rifle, Non corrosive, Non mercuric, Boxer 7,62 x 39 mm BALL M67 Rifle cartridge with lead/antimony core bullet BALL 8 g 17,4 g 18 Large rifle, Non corrosive, Non mercuric, Boxer 7,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet 11,8 g 20 g 11,8 g 20 g 11,8 g 20 g 12,5 g 12,5 g 12,6 g 12,6 g 12,6 g 12,6 g 12,7 g 12,7 g 12,7 g 12,8 g 13,9 g 14,7 g 15,8 g 15,8 g 16,8 g 17,4 g 16,8 g 17,4 g 17,4 g 18 Large rifle, Non corrosive, Non mercuric, Boxer 11,8 g 12,9 g 12,8 g 12,9 g				12 g	•	-20°C +52°C
7,62 x 51 mm NATO SNIPER M118 three darkings with lead/antimony core bullet T175 gr T25,8 g Berdan (A-526), Boxer (A-387) +52°C 24,5 g Berdan (A-526), Boxer (A-387) Earge rifle, Non corrosive, Non mercuric, Boxer T24,5 g Large rifle, Non corrosive, Non mercuric, Boxer T2,62 x 51 mm 308 Winchester MATCH T2,3 g T2,62 x 51 mm 308 Winchester MATCH T2,62 x 51 mm 308 Winchester MATCH T2,62 x 51 mm 308 Winchester MATCH T2,62 x 39 mm BALL M67 Rifle cartridge with lead/antimony core bullet T2,62 x 39 mm BALL M67 Rifle cartridge with lead/antimony core bullet T2,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T2,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T3,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T4,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T4,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T4,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T4,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T4,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T4,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T4,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet T4,62 x 39 mm BLANK Ri	7,62 x 51 mm NATO MATCH M852 Rifle cartridge with	BALL		25,5 g		-54°C +52°C
7,62 x 51 mm 308 Winchester MATCH MATCH 155 gr 24,5 g Boxer +52°C 7,62 x 51 mm 308 Winchester MATCH MATCH 12,3 g MATCH 12,3 g MATCH 190 gr 27 g Large rifle, Non corrosive, Non mercuric, Boxer 17,4 g Large rifle, Non corrosive, Non mercuric, Boxer 17,4 g Large rifle, Non corrosive, Non mercuric, Boxer 17,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet 123 gr 17,4 g Large rifle, Non corrosive, Non mercuric, Boxer 17,62 x 39 mm BLANK Rifle cartridge with BALL 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, Boxer 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, -40°C	7,62 x 51 mm NATO SNIPER M118 lead/antimony core bullet	BALL		25,8 g		-54°C +52°C
7,62 x 39 mm BALL M67 Rifle cartridge with lead/antimony core bullet 7,62 x 39 mm BALL M67 Rifle cartridge with lead/antimony core bullet BALL 8 g 17,4 g Large rifle, Non corrosive, Non mercuric, Boxer 9,7 g Large rifle, Non corrosive, Non mercuric, Boxer 7,62 x 39 mm BLANK Rifle cartridge with lead/antimony core bullet 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, 40°C Large rifle, Non corrosive, Non mercuric, 40°C Large rifle, Non corrosive, Non mercuric, 40°C	7,62 x 51 mm 308 Winchester MATCH		, .	24 ,5 g	— · · · · · · · · · · · · · · · · · · ·	-54°C +52°C
7,62 x 39 mm BALL M67 Total and antimony core bullet BALL 123 gr Boxer 17,4 g Boxer 123 gr Boxer 123 gr 17,4 g Boxer 17,4	7,62 x 51 mm 308 Winchester MATCH		, ,	27 g	<u> </u>	-20°C +52°C
7,62 x 39 mm BLANK without bullet Boxer +52°C 7,62 x 39 mm BLANK Boxer +52°C 11,8 g 20 g Large rifle, Non corrosive, Non mercuric, -40°C		BALL		17,4 g		-40°C +52°C
				9,7 g		-20°C +52°C
		BALL		20 g		-40°C +52°C



Military Program

CALIBER			BULLET TYPE	BULLET MASS	CARTRIGE MASS	PRIMER	TEMPERATURE Interval
7,62 x 54 mm BALL M30 (J)	Rifle cartridge with lead/antimony core bullet		BALL	11,8 g 182 gr	24,9 g	Large rifle, Non corrosive, Non mercuric, Berdan 6,55 DTN	-40°C +52°C
7,62 x 54 BALL M87	Rifle cartridge with steel core bullet		BALL	9,6 g 148 gr	22 ,7 g	Large rifle, Non corrosive, Non mercuric, Berdan 6,55 DTN	-40°C +52°C
7,62 x 54 BALL BLANK	Rifle cartridge without bullet				22,7 g	Large rifle, Non corrosive, Non mercuric, Berdan (A-422), Boxer (A-392)	-20°C +52°C
7,62 x 54 mm SNIPER M03	Rifle cartridge with lead/antimony core bullet	>	SNIPER MO3	11,8 g 182 gr	24,9 g	Large rifle, Non corrosive, Non mercuric, Berdan 6,55 DTN	-40°C +52°C
7,62 x 54 mm SNIPER	Rifle cartridge with lead/antimony core bullet	>	SNIPER	11,8 g 182 gr	24 ,9 g	Large rifle, Non corrosive, Non mercuric, Berdan 6,55 DTN	-20°C +52°C
7,62 x 54 mm MATCH	Rifle cartridge with lead/antimony core bullet	>	303MK8 ^z	12,3 g 190 gr	25,5 g	Large rifle, Non corrosive, Non mercuric, Boxer	-20°C +52°C
338 Lapua Magnum (8,60 x 70 m	Rifle cartridge with ^{m)} lead/antimony core bullet	>	BALL	16,2 g 250 gr	44 g	Large rifle magnum, Non corrosive, Non mercuric, Boxer	-54°C +52°C
338 Lapua Magnu	I m (8,60 x 70 mm)	>	HP BT	16,2 g 250 gr	44 g	Large rifle magnum, Non corrosive, Non mercuric, Boxer	-54°C +52°C
.50 BROWNING (12,3	2 x 99 mm) SNIPER	>	SOLID RM06-2	47 g 725 gr	119 g	Large rifle 12,7, Non corrosive, Non mercuric, Boxer	-54°C +52°C
.50 BROWNING (Sniper Ball M3	12,7 x 99 mm) 3	>	Tombac jacket,Core with lead/ BALL, antimony+ steel core+lead coverage	45,3 g 699 gr	116 g	Large rifle 12,7, Non corrosive, Non mercuric, Boxer	-54°C +52°C
.50 BROWNING († Blank	12,7 x 99 mm)	>			55 g	Large rifle 12,7, Non corrosive, Non mercuric, Boxer	-20°C +52°C
12,7 x 108 mm	SNIPER M09	>	SOLID MO9	51,3 g 792 gr	134 g	Large rifle 12,7, DSK Berdan	-54°C +52°C
12,7 x 108 r	nm BALL	>	Jacket: Tombac plated steel BALL, Core with aluminium on the to + core with lead/antimony	51,3 g 792 gr	134 g	Large rifle 12,7, DSK Berdan	-54°C +52°C
12,7 x 108 r	nm BALL	>	BALL, Jacket: Tombac plated steel	51,3 g 792 gr	134 g	Large rifle 12,7, DSK Berdan	-54°C +52°C

Pistol Submachine gun and Revolver ammunition

9 x 19 mm	Pistol cartridge With lead/antimony core bullet	BLANK		5,4 g	Small pistol, Non corrosive Non mercuric, Boxer	-20°C +52°C
9 x 19 mm	Pistol cartridge With lead/antimony core bullet	SUBSONIC BALL	9,5 g 147 gr	13,7 g	Small pistol, Non corrosive Non mercuric, Boxer	-30°C +52°C
9 x 19 mm	Pistol cartridge With lead/antimony core bullet	BALL	8,0 g 124 gr	12,1 g	Small pistol, Non corrosive Non mercuric, Boxer	-54°C +52°C
9 x 19 mm	Pistol cartridge With lead/antimony core bullet	BALL	7,45 g 115 gr	11,7 g	Small pistol, Non corrosive Non mercuric, Boxer	-54°C +52°C



Rifle Ammunition / Submachine Auun ammunition / Light Machine Gun Ammunition / Machine Gun Ammunition / Pistol Ammunition / Anticraft Machine Gun Ammunition



Prvi Partizan is modern company, one of the largest of this kind in the world. Company produces over 400 types of rifle, pistol, revolver and small arms ammunition. The beginning of 21st century is especially important for technological development of Prvi Partizan. The excellent quality of our products is achieved through the consistent application of our Quality management.

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CALIBER	BULLET TYPE	BULLET WEIGHT	ROUNDS BOX / CASE	GROSS WEIGHT
22 HORNET	▶ SP	2.90 g	50 / 2000	16.80 kg
222 REMINGTON	SP/FMJ BT	3.24 g	50 / 2000	12.40 kg
22-250 REMINGTON	SP/FMJ BT	3.24 g	50 / 2000	12.70 kg
243 WINCHESTER	SP	5.80 g	50 / 2000	13 kg
25-06 REMINGTON	HP/PSP	5.80 g	50 / 2000	13.40 kg
264 WINCHESTER MAGNUM	PSP	9.10 g	50 / 2000	16.20 kg
270 WINCHESTER	SP	8.40 g	50 / 2000	13.40 kg
30 CARBINE	SPRN/FMJRN	7.10 g	50 / 2000	6.80 kg
308 WINCHESTER	FMJ BT/SP/PSP BT/HP BT GROM	8 g	50 / 2000	2.50 kg
30-30 WINCHESTER	FSP	9.70 g	50 / 2000	11.80 kg
30-06 SPRINGFIELD	SP/PSP BT/HP BT/ FMJ/GROM/Z-GROM	8 g	50 / 2000	12.90 kg
300 WINCHESTER MAGNUM	SP/SPBT/SP SPBT/FMJ BT	9.40 g	50 / 2000	16.10 kg
300 WINCHESTER MAGNUM	SPBT/FMJ BT	9.70 g	50 / 2000	13.20 kg
338 LAPUA MAGNUM	FMJBT/HP BT	16.20 g	50 / 2000	19.50 kg
375 H&H MAGNUM	SPRN/FMJ	19.50 g	50 / 2000	18 30 kg
45-70 GOVERNMENT	SJFP	26.25 g	50 / 2000	20 kg
7 mm REMINGTON MAGNUM	PSP BT/GROM/HP/ SP/Z-GROM/FMJ BT	7.80 g	50 / 2000	15.60 kg
6 mm REMINGTON	SP	5.80 g	50 / 2000	13.10 kg
6.5 mm GRENDEL	FMJ BT/HP BT/SP	7.10 g	50 / 2000	10 kg
7.62 x 51 M80	FMJ BT	10 g	50 / 2000	12.60 kg

CALIBER	BULLET TYPE	BULLET WEIGHT	ROUNDS BOX / CASE	GROSS WEIGHT
6.5 x 52 CARCANO	SP/SP BT/ FMJ BT/SP RN	8 g	20 / 500	11.40 kg
6.5 x 55 SWEDISH	HP BT/SP/SP BT/FMJ BT/SP RN	7.80 g	20 / 500	12.50 kg
6.5 X 54 MANN-SCHOENAUER	SP RN	10.10 g	20 / 500	13 kg
6.5 x 57 MAUSER	SP/SP BT/ FMJ BT/SP RN	8 g	20 / 500	12.50 kg
7 mm - 08 REMINGTON	HP/PSP BT	7.80 g	20 / 500	12.50 kg
7 mm MAUSER	SP/GROM/Z-GROM/	9 g	20 / 500	13.30 kg
7 x 57 R	SP/GROM/	9 g	20 / 500	13.30 kg
7.5 x 54 FRENCH	Z-GROM/FMJ BT	9 g	20 / 500	17.20 kg
7.5 x 55 SWISS	FMJ	11.30 g	20 / 500	12.90 kg
7.62 x 39	FMJ BT/SP	8 g	20 / 500	18.50 kg
7.62 x 54 R	PSP/SP RN/FMJ	9.70 g	20 / 500	12.60 kg
7 x 64	SP BT/FMJ BT	9 g	20 / 500	13.80 kg
7.65 x 53 ARGENTINE	SP BT/FMJ BT/SP BT	9.7 g	20 / 500	13.30 kg
7.9 x 33 KURZ	FMJ BT	8 g	20 / 500	17 kg
8 mm MAUSER	SP/HP BT/PSP BT/GROM/ Z-GROM/FMJ BT	9 g	20 / 500	15 kg
8 x 57 IRS	SP/FMJ BT	12.7 g	20 / 500	16 kg
8 x 50 R LEBEL	FMJ BT	12.69 g	20 / 500	17 kg
8 x 56 RS MANNLICHER	SP/FMJ BT	13.5 g	20 / 500	16.50 kg
9.3 x 62	SP/ Solid HP	18.5 g	20 / 500	19 kg
9.3 x 74 R	SP/ Solid HP	18.5 g	20 / 500	19 kg

CALIBER	BULLET TYPE	BULLET WEIGHT	ROUNDS BOX / CASE	GROSS WEIGHT
308 WINCHESTER	FMJ/FMJ BT/SP/PSP BT/ GROM/HP BT	8 g	20 / 500	12.50 kg
30-06 SPRINGFIELD	FSP	9.70 g	20 / 500	11.80 kg
300 WINCHESTER MAGNUM	SP/FMJ BT/PSP BT/HP BT/ GROM/Z-GROM	9.40 g	20 / 500	16.10 kg
7 mm MAUSER	SP/GROM/Z-GROM	9 g	20 / 500	13.70 kg
7 mm REMINGTON MAGNUM	HP/PSP BT/SP/GROM/ Z-GROM/HP BT	7.80 g	20 / 500	15.60 kg
8 mm MAUSER	SP/HP BT/PSP BT/GROM/Z- GROM/FMJ BT	9 g	20 / 500	13.50 kg

CALIBER	BULLET TYPE	BULLET WEIGHT	ROUNDS BOX / CASE	GROSS WEIGHT
223 REMINGTON MATCH	SP	4.47 g	50 / 2000	13.20 kg
308 WINCHESTER MATCH	HP BT/FMJ BT/MATCH Solid	10.9 g	20 / 500	14.80 kg
6.5x55 SWEDISH MATCH	HP BT/FMJ BT/SP/SP BT/ SP RN	7.80 g	20 / 500	12.70 kg
7.62x54 R MATCH	FMJ BT	11.80 g	20 / 500	14 kg
8 mm MAUSER MATCH	SP/HP BT/PSP BT/GROM Z-GROM/FMJ BT	12.96 g	20 / 500	15 kg

CALIBER	BULLET TYPE	BULLET WEIGHT	ROUNDS BOX / CASE	GROSS WEIGHT
5.56x45 mm	FMJ BT	3.56 g	20 / 1000	12.70 kg
223 REMINGTON	SP/FMJ BT/HP BT	4.01 g	20 / 1000	13.20 kg

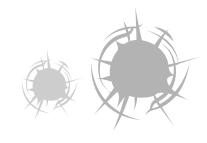


CALIBER	BULLET TYPE	BULLET WEIGHT	ROUNDS BOX / CASE	GROSS WEIGHT
6.8 REMINGTON SPC	FMJ BT/HP BT	7.45 g	20 / 500	12.50 kg



CALIBER	BULLET TYPE	BULLET WEIGHT	ROUNDS BOX / CASE	GROSS WEIGHT
300 AAC BLACKOUT	FMJ/HP BT	8 g	20 / 500	12.60 kg





CALIBER	BULLET TYPE	BULLET WEIGHT	ROUNDS BOX / CASE	GROSS WEIGHT
22 REMINGTON JET	SP	2.9 g	50 / 1000	9.40 kg
25 AUTO	FMJ	3.25 g	50 / 1000	5.60 kg
32 AUTO	FMJ/JHP	4.6 g	50 / 1000	8.50 kg
32 SMITH & WESSON LONG	LRN/WC	6.35 g	50 / 1000	5.20 kg
380 AUTO	FMJ/JHP	6.1 g	50 / 1000	10.10 kg
38 SPECIAL	FMJ/FMS/FPJ/SJFP/SJHP/ LRN/SWC/SWC HP/ WC	8.4 g	50 / 1000	7.20 kg
38 SMITH & WESSON	LRN	9.4 g	50 / 1000	14.50 kg
357 MAGNUM	FMS/FPJ/SJHP/SJFP	10.2 g	50 / 1000	8.60 kg
357 SIG	FPJ	8.1 g	50 / 1000	14 kg
38 SUPER AUTO +P	FMJ	8.4 g	50 / 1000	7.30 kg
40 SMITH & WESSON	FPJ/TMJ/JHP	10.7 g	50 / 1000	8.20 kg
44 REMINGTON MAGNUM	FPJ/JHP/JHP/SJHP/SJFP	11.7 g	50 / 1000	11 kg
45 AUTO	SJHP/FMJ/ TMJ/LRN	12 g	50 / 1000	9.40 kg
7.63 MAUSER	FMJ	5.5 g	50 / 1000	6 kg
7.62x25 TOKAREV	FMJ/JHP	5.5 g	50 / 1000	6 k9
7.62 NAGANT	FPJ	6.35 g	50 / 1000	6.50 kg
7.65 PARABELLUM	FMJ	6 g	50 / 1000	11.20 kg
9x18 MAKAROV	FMJ/JHP	6 g	50 / 1000	10.50 g
9 mm LUGER	FMJ/SJFP/TMJ/ JHP/ LRN/SJSP/FPJ	6.15 g	50 / 1000	11.30 g
9x21	FMJ/LRN	8 g	50 / 1000	13.10 g
9 mm BROWING LONG	FMJ	7 g	50 / 1000	11.70 g
10 mm AUTO	FPJ/JHP	11 g	50 / 1000	8.60 g



Blank Ammunition

CALIBER	LOAD
30-06 SPRINGFIELD BLANK	PP-3.5
303 BRITISH BLANK	PP-3.7
5.56 M200	PP-5.1
5.56 M200 A1	PP-5.0
7.62x39 BLANK	PP-31
7.9 BLANK	PP-7.9
45 AUTO BLANK	PP-R4.32
308 WINCHESTER BLANK	PP-3.20
7.62x54 R BLANK	PP-7.6
9 mm LUGER BLANK	PP-R9.3
9 mm PA BLANK	PP-R9.6







9	HANDGUN AMMUNITION CALIBER
FMJ	FULL METAL JACKET
SP	SOFT-POINT
JHP	JACKETED HOLLOW POINT
FMS	FULL METAL SPITZ
FPJ	FLAT POINT JACKET
SJFP	SEMI-JACKED FLAT POINT
SJHP	SEMI-JACKED HOLLOW POINT
SJSP	SEMI-JACKED SOFT POINT
WC	WAD CUTTER
SWC	SEMI-WAD CUTTER
SWC HP	SEMI-WAD CUTTER HOLLOW POINT
TMJ	TOTAL METAL JACKET
LRN	LEAD ROUND NOSE

.0	-	RIFLE AMMUNITION CALIBER
=	FMJ	FULL METAL JACKET
<u>.a</u>	FMJ BT	FULL METAL JACKET BOAT TAIL
=	FMJ RN	FULL METAL JACKET ROUND NOSE
9	SP	SOFT-POINT
þ	PSP	POINTED SOFT-POINT
	SP BT	SOFT-POINT BOAT TAIL
\blacksquare	PSP BT	POINTED SOFT-POINT BOAT TAIL
	SP RN	SOFT-POINT ROUND NOSE
- C	FSP	FLAT SOFT-POINT
	HSP	HOLLOW SOFT-POINT
	HP	HOLLOW POINT
$\mathbf{\Omega}$	HP BT	HOLLOW POINT BOAT TAIL

Ammunition









Air bombs Artillery Shells

Anti-tank Mines Hand Grenades

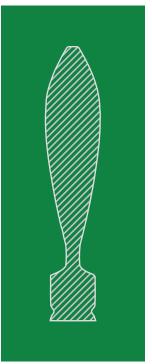


Fuzes Anti-tank guided rockets

Mortar Shells







Modern solutions have been applied in developing II generation of shells. Masking of friendly troops movement as well as blinding of enemy observers, fire support artillery and anti-tank weapon crews is achieved by use of modern, low-drag and highly efficient white phosphorus-based smoke shells. With use of illuminating mortar shells, mortars provide night battlefield illumination, as well as blinding of enemy crews and observers.



DESIGNATION	HE	HE	HE	HE
60 mm	MA	July	July	July
DESCRIPTION / MODEL	M73	M73 P3	M73 P4	M73 P5
LENGTH WITH FUZE (mm)	291	301	291	301
MASS WITH FUZE (g)	1350	1350	1350	1350
EXPLOSIVE CHARGE TYPE	TNT	TNT	TNT	TNT
EXPLOSIVE CHARGE MASS (g)	220	220	220	220
TEMPERATURE ENVIRONMENT	-30°C to 50°C	-30°C to 50°C	-30°C to 50°C	-30°C to 50°C
KILLING RANGE RADIUS	10 m	10 m	10 m	10 m
MAX RANGE (m)	2550	2550	2550	2550
MIN RANGE (m)	94	94	94	94
FUZE TYPE	UT M68 P1	UT M68 P1	UT M88 P1	UTU M93-N
LL PACKING	BOXES IN CASE	SHELLS IN (CARDBOARD	GROSS MASS
OXES IN WOODEN CASE	12		1	29 kg

>	



	DESIGNATION	HE	HE	HE	HE
	60 mm	MA	MA	July	July
	DESCRIPTION / MODEL	M08	M08 P1	MK10	MK10 P1
(B)	LENGTH WITH FUZE (mm)	301	301	410	410
1999	MASS WITH FUZE (g)	1350	1350	2100	2100
1	EXPLOSIVE CHARGE TYPE	TNT	TNT	TNT	TNT
CON IS	EXPLOSIVE CHARGE MASS (g)	220	220	400	400
	TEMPERATURE ENVIRONMENT	-46°C to 60°C	46°C to 60°C	46°C to 60°C	46°C to 60°C
	KILLING RANGE RADIUS	10 m	10 m	14 m	14
332	MAX RANGE (m)	2550	2550	5100	5100
CHILD	MIN RANGE (m)	94	94	90	90
PAR	FUZE TYPE	UT M88 P1	UTU M93-N	UT M88 P1	UTU M93
S	HELL PACKING	BOXES IN CASE	SHELLS IN (CARDBOARD	GROSS MASS
CARDBOARD	BOXES IN WOODEN CASE	12			29 kg

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CARDBOARD

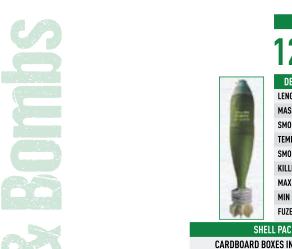
DESIGNATION	ILLUMINATING	ILLOPHINATINO	ILLOPHINATINO	ILLOPINATINO
60 mm	#	#	*	#
DESCRIPTION / MODEL	M67	M67 P2	M08	M91
LENGTH WITH FUZE (mm)	330	330	330	495
MASS WITH FUZE (g)	1270	1270	1270	2100
EXPLOSIVE CHARGE TYPE	180.000 Cd / 35 s	180.000 Cd / 35 s	180.000 Cd / 35 s	350.000 Cd / 30 s
EXPLOSIVE CHARGE MASS (g)	200	200	200	300
TEMPERATURE ENVIRONMENT	-30°C to 50°C	-30°C to 50°C	-30°C to 50°C	-30°C to 50°C
KILLING RANGE RADIUS	1	1	1	1
MAX RANGE (m)	2450	2450	2450	4000
MIN RANGE (m)	400	400	400	400
FUZE TYPE	TP M67	TP M67	TP M67	TP M67
ELL PACKING	BOXES IN CASE	SHELLS IN (CARDBOARD	GROSS MASS
BOXES IN WOODEN CASE	12		1	27 kg

60mm	>
Shells	
Mortar	



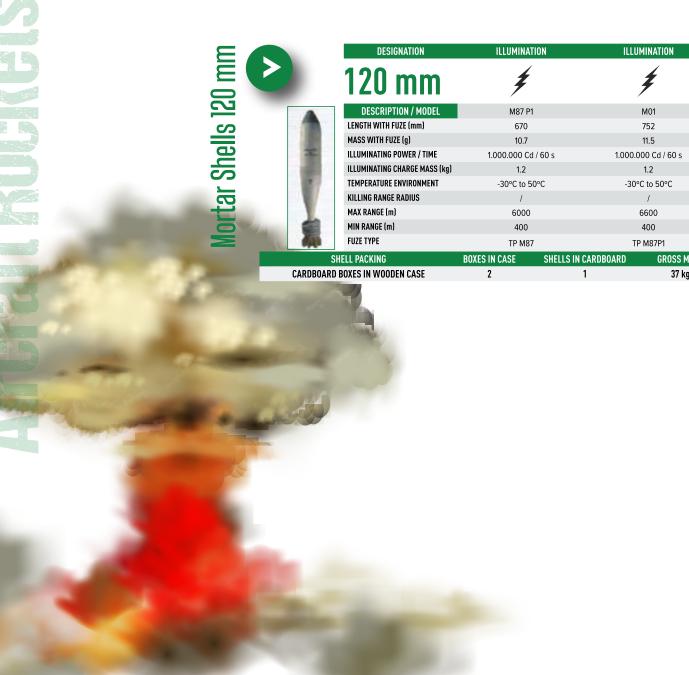
	DESIGNATION	ILLUMINATING	SMOKE	SMOKE	SMOKE
	60 mm	#	©		
	DESCRIPTION / MODEL	MK10	M73	M73 P2	M08
-	LENGTH WITH FUZE (mm)	495	286	286	
AD.	MASS WITH FUZE (g)	2100	1350	1350	1350
	EXPLOSIVE CHARGE TYPE	350.000 Cd / 30 s	1	1	1
I	EXPLOSIVE CHARGE MASS (g)	300	1	/	/
	TEMPERATURE ENVIRONMENT	-30°C to 50°C	-30°C to 50°C	-30°C to 50°C	-46°C TO 63°C
	KILLING RANGE RADIUS	1	1	1	1
	MAX RANGE (m)	4000	2550	2550	2550
	MIN RANGE (m)	400	94	94	94
and the	FUZE TYPE	TP M67	UT M68 P1	UT M68 P1	UT M88 P1
SHE	ELL PACKING	BOXES IN CASE	SHELLS IN C	CARDBOARD	GROSS MASS
CARDBOARD B	OXES IN WOODEN CASE	12	1		27 kg

Aircraft Rockets & Bombs



DESIGNATION	SMOKE	SMOKE	SMOKE	SMOKE
120 mm	©	©		©
DESCRIPTION / MODEL	M64 P2	M64 P3	MK12	M89
LENGTH WITH FUZE (mm)	600	606	800	670
MASS WITH FUZE (g)	12.6	12.6	14.8	11.25
SMOKE TIME	min 210 s	min 210 s	min 210 s	min 210 s
TEMPERATURE ENVIRONMENT	-30°C to 50°C	-30°C to 50°C	-46°C to 63°C	-30°C to 50°C
SMOKE CHARGE WEIGHT (kg)	2.45	2.45	2.45	1.65
KILLING RANGE RADIUS	1	1	1	1
MAX RANGE (m)	6500	6500	7400	6000
MIN RANGE (m)	255	255	255	400
FUZE TYPE	UT M68 P1	UT M88 P1	UT M88 P1	TP M87
ELL PACKING	BOXES IN CASE	SHELLS IN C	CARDBOARD	GROSS MASS
OXES IN WOODEN CASE	2	1		44 kg









DESCRIPTION / MODEL	BR-1-57	7 B	R-2-57	BR-20-57
LENGTH WITH FUZE (mm)	882		824	1200
MASS (g)	3.8		3.64	4.5
EXPLOSIVE CHARGE MASS (g)	285		290	320
MAXIMUM SPEED	673 to 617	rn/s 563 t	o 620 rn/s	1
1 KM FLYING TIME	1.89 to 2.1	19 s 2.46	6 to 2.17 s	1
PRESSURE IN THE ROCKET CHAMBER	380 kg/ci	m2 375	kg/cm2	1
FUZE TYPE	UTI-1		UTI-2	UTI-2
ROCKET PACKING	BOXES IN CASE	SHELLS IN CARDBOARD	GR	OSS MASS
WOODEN CASE	2	1		37 kg





DESCRIPTION / MODEL	FAB-100 M80 HE	FAB-100 M80 HE RETARDED	FAB-250 M79 HE	RAB-250 M91
LENGTH WITH FUZE (mm)	1490	1617	2015	2085
MASS WITHOUT FUZE (kg	117	128	240	252
EXPLOSIVE CHARGE MASS (g)	39	39	105	70
DIAMETER (mm)	230	230	325	320
HOOK SPACING (mm)	255 / 355.6	255 / 355.6	255 / 355.6	355.6 / 250
TEMPERATURE ENVIRONMENT	-40 to +50C	-40 to +50C	-40 to +50C	-40 to +60C
FUZE TYPE	AUV-E / AUFK	AUFK	AUV-E / AUFK	UPB M91
BOMBS PACKING	BOMBS IN CRA	ATE .	FINS	
CDATE	2		19	

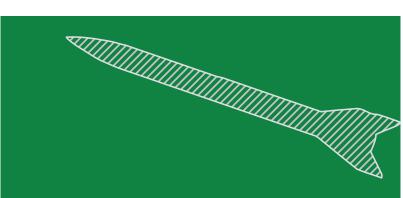




Unguided Rockets



Unguided rockets for multi-tube launchers intended for impact, and quick fire assaults on surface targets in the depth of the enemy. It is efficient against all types of the targets: personnel, unshielded and armored vehicles.





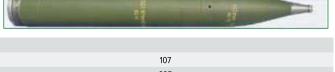


"GRAD" is self-propelled multi-tube missile launcher intended for impact, sudden and quick fire assaults on the surface targets in the depth of the enemy. It is efficient against all types of targets: personnel, non-armoured and armoured vehicles.

System "GRAD" fires three types of missiles: GRAD, GRAD-M and GRAD 2000. The launcher is carried on the vehicle TAM 150 T11 BV 6x6. It is possible to mount it on other vehicles of the similar characteristics.

107 mm

DESCRIPTION / MODEL



M84 GROSS MASS
M84
) +60°C
.5
25
.6
25
7





Jnguided Rocket 122 mm Grad/Grad - M/Grad 2000



122 mm

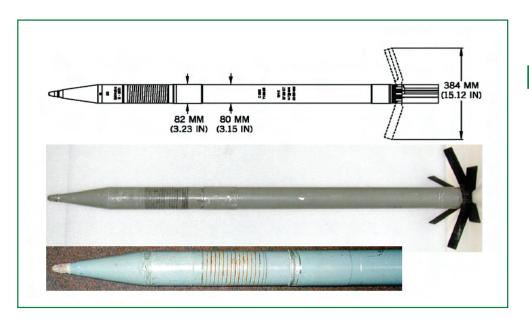
DESCRIPTION / MODEL	GRAD	GRAD - M	GRAD 2000
CALIBER (mm)	122	122	122
LENGTH WITH FUZE (mm)	2875	2875	2925
MASS WITH FUZE (kg)	67.3	69.3	68.3
WARHEAD EXPLOSIVE WEIGHT (kg)	19.1	19.1	19.1
MAXIMUM RANGE (km)	27.8	27.8	40
OPERATING TEMPERATURE RANGE	-30°C to +50°C	-30°C to +50°C	-30°C to +50°C
ROCKET PACKING	BOXES IN CASE		GROSS MASS
WOODEN CASE	2		67 kg

Rockets S5 and S8



This is the Bulgarian 57mm S5, a high explosive fin-stabilised, solid propellant, air-to-ground-rocket. The S5 series of conventional unguided rockets comprises a warhead, a solid-propellant rocket motor and flip-out tails fins for stability.

The S5 is a 55mm calibre unguided rocket fired from a 57mm calibre tube.



Rocket S8



This is the Bulgarian 80mm S8, a high explosive fragmentation, fin-stabilised, air-to-ground-rocket, with a cross-cut diamond pattern fragmentation sleeve.

The S8 is a conventional 80mm calibre unguided electrically fired rocket with a solid-propellant rocket motor.





OGANJ C is self-propelled multi-tube missile launcher intended for impact, sudden and quick fire assaults on surface targets in the depth of the enemy. It is efficient against all types of the targets: personnel, unshielded and armoured vehicles.

OGANJ C, for firing from multi-tube missile launcher, uses point-detonating-demolition missile M77 (OGANJ M77). The launcher is loaded on the vehicle TAM 150 T11 BV6x6.

It is possible to mount it on other vehicles of similar characteristics (FAP 1417, for example). The system is modularly designed in such a way as to permit mounting of the "PLAMEN" launching device with 32 tubes, put on the universal upper carriage.

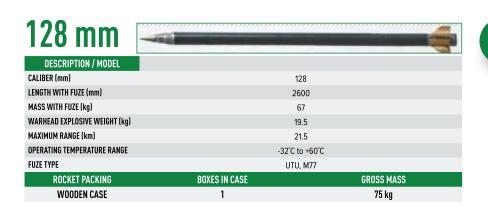
The launcher design meets all the erogonomic requirements providing comfortable and safe work. Mechanism drive is manual. On the user's request, it can be modified to semi-automatic operation.

The launcher deployment time is 30 seconds. Time, needed for firinf position leave, is 30 seconds. Masses distribution provides proper center of gravity position during transportation with FULL/EMPTY combination while the launching device has been turned over to the original position by 180°.





DESCRIPTION / MODEL	PLAMEN A	PLAMEN D
CALIBER (mm)	128	128
LENGTH WITH FUZE (mm)	837	971
MASS WITH FUZE (kg)	23.1	25.5
WARHEAD EXPLOSIVE WEIGHT (kg)	2.6	3.3
MAXIMUM RANGE (km)	8.6	12.6
OPERATING TEMPERATURE RANGE	-30°C to +50°C	-30°C to +50°C
ROCKET PACKING	BOXES	IN CASE
WOODEN CASE	·	1





100 mm 105 mm 125 mm 130 mm 52 mm 155 mm



Artillery Shells



100 mm

125 mm

152 mm

105 mm

130 mm

155 mm



These calibers are used for completion of artillery missiles, as well as fuses and gun primers. We perform completion of artillery missiles. We are also euiped for all types of acceptance control tests done prior to including the device into the armament of an army.









Designed to be used against live force, in both open and sheltered space. It is from grenade launcher GP-25 mounted under the barrel of the Klashinkov machinegun (AK-74, AKS-74, AKM, AK-101) as well as new M21 rifles produced by "Zastava" Kragujevac. This bullets can be fired directly]holding the device on the shoulder] to the range 50 to 400m, and indirectly (curved trajectory) to the range of 200 to 350m.

	DESIGNATION	BLASTING	BLASTING	CUMULATIVE	HE
40	mm	Mile	MA	\wedge	MA
A. C. S.	DESCRIPTION / MODEL	M02	M04	M04	M04
	LENGTH (mm)	105	125	108	103
	MASS (g)	260	300	260	190
	EXPLOSIVE CHARGE MASS (g)	49	40	32	1
2.0	SELF DESTRUCTION TIME (s)	15	15	15	15
E 0.38	TEMPERATURE ENVIRONMENT	-53°C to 71°C	-53°C to 71°C	-53°C to 71°C	-53°C to 71°C
	PENETRATION (mm)	1	1	50	/
	MAX RANGE (m)	400	400	400	400
	MIN RANGE (m)	1	1	1	1
6 13	FUZE TYPE	UT, M02 SP	UT, M07	UT, M02 SP	UT, M04
SHEL	L PACKING	CONTAINERS	BOX DI	MENSION	GROSS MASS
PLASTIC CONTAI	NERS IN WOODEN BOX	40	59,6 x 36	6 x 19,6 cm	23.5 kg



	DESIGNATION	INCENDIARY	SMOKE	PRACTICE	
40	mm		©	0	
	DESCRIPTION / MODEL	M04	M04	M04	
	LENGTH (mm)	105	108	105	
	MASS (g)	260	260	260	
	SMOKE MIXTURE MASS (g)	/	100	1	
	SELF DESTRUCTION TIME (s)	15	15	15	
	TEMPERATURE ENVIRONMENT	-53°C to 71°C	-53°C to 71°C	-53°C to 71°C	
ALC: 12 122	INCIDENTARY MIXTURE MASS (g)	80	1	80	
	MAX RANGE (m)	400	400	400	
	MIN RANGE (m)	1	1	1	
	FUZE TYPE	UT, M02 SP	UT, M02 SP	UT, M02 SP	
SHEL	L PACKING	BOXES IN CASE	SHELLS IN C	ARDBOARD	GROSS MASS
CARDBOARD BO	XES IN WOODEN CASE	40	59,6 x 36,6	x 19,6 cm	23.5 kg





PLASTIC BOX IN WOODEN CASE



CASE GROSS WEIGHT 23.5 kg

DESCRIPTION / MODEL	HAND GRENADE M-75
MASS (g)	355
DIMENSIONS (mm)	57x89
EXPLOSIVE CHARGE MASS (g)	36
STEEL BALLS DIAMETER (mm)	2.5-2.9
SAFETY RING PULLING FORCE (n)	7-18
FUZE DELAY TIME (s)	3-4.4

BOXES IN WOODEN CASE PLASTIC BOX IN WOODEN CASE 36

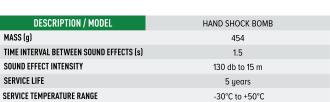


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DESCRIPTION / MODEL	CHAPED-CHARGE HAND GRENADE (BRK)
MASS (g)	1000
LENGTH (mm)	399
EXPLOSIVE CHARGE MASS (g)	340
WARHEAD DIAMETER (mm)	74.5
STEEL PLATE PENETRATION (mm)	280
SERVICE TEMPERATURE RANGE	-30°C to +50°C

PACKING BOXES IN WOODEN CASE

PLASTIC BOX IN WOODEN CASE

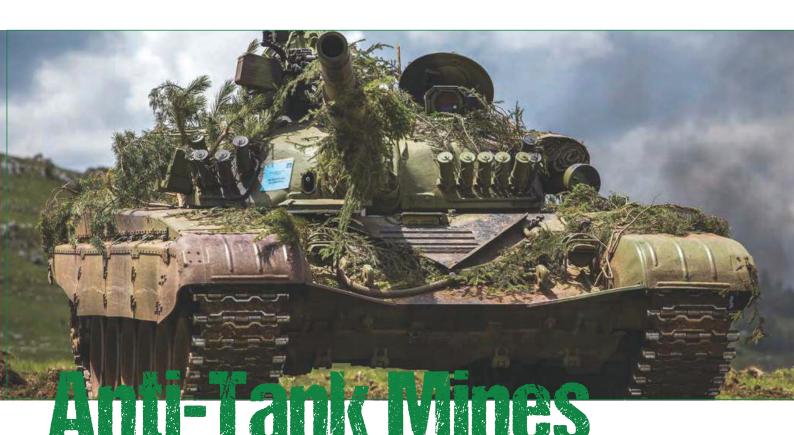


PACKING **BOXES IN WOODEN CASE** PLASTIC BOX IN WOODEN CASE

12







 MASS (g)
 7.2

 DIMENSIONS (mm)
 290x132

 EXPLOSIVE CHARGE MASS (g)
 5.1

 EXPLOSIVE CHARGE TYPE
 CAST TNT

 STEPPING-ON AREA
 200 mm (314 cm²)

 ACTIVATION FORCE
 1.3 – 1.7 daN

 PACKING
 MINES IN BOX



BOX GROSS WEIGHT

43 kg

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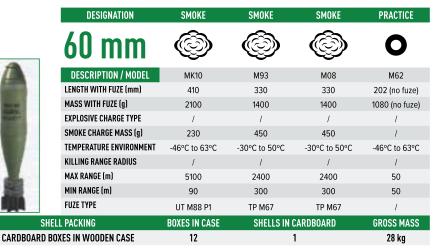
BOX

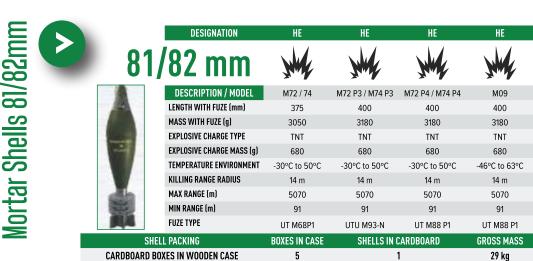


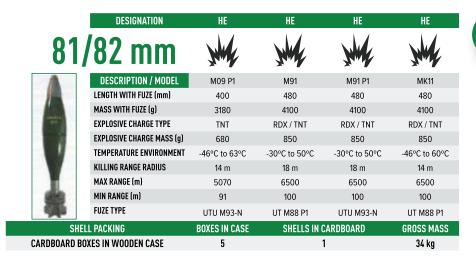
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PACKING	MINES IN BARREL	BARREL GROSS WEIGHT
BARREL	4	28 kg



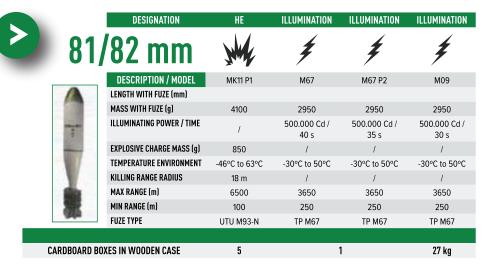


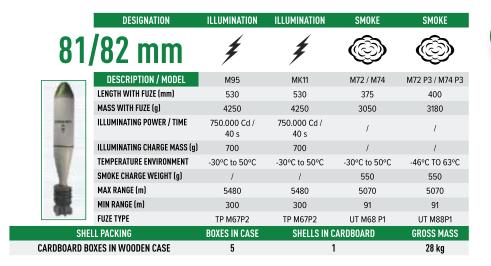




Mortar Shells 60mm

Mortar Shells 81/82mm





	DESIGNATION	SMOKE	HIGH-SMOKE	HIGH-SMOKE	HIGH-SMOKE
81	/82 mm				
	DESCRIPTION / MODEL	MK11	M88	M88 P1	M95
	LENGTH WITH FUZE (mm)	478	410	410	480
100	MASS WITH FUZE (g)	4100	2950	2950	4250
1000	SMOKE TIME	min 120 s	min 120 s	min 120 s	min 120 s
	SMOKE CHARGE WEIGHT (g)	700	850	850	850
	TEMPERATURE ENVIRONMENT	-46°C to 63°C	-30°C to 50°C	-30°C to 50°C	-30°C to 50°C
₩/	KILLING RANGE RADIUS	1	1	1	1
W	MAX RANGE (m)	6500	3400	3400	5480
de	MIN RANGE (m)	90	300	300	300
75	FUZE TYPE	UT M88 P1	TP M67	TP M67	TP M67P2
SHE	LL PACKING	BOXES IN CASE	SHELLS IN C	ARDBOARD	GROSS MASS
ARDBOARD BO	OXES IN WOODEN CASE	5	1		35 kg

	DESIGNATION	SMOKE	HIGH-SMOKE	PRACTICE	PRACTICE
81	/82 mm	(3)	©	0	0
4	DESCRIPTION / MODEL	M91	M09	M68 PARACHUTE TARGET	M62
	LENGTH WITH FUZE (mm)	478	480	380 (no fuze)	287
100	MASS WITH FUZE (g)	4100	4250	2300 (no fuze)	2048
1000	SMOKE TIME	min 120 s	min 120 s	1	1
	SMOKE CHARGE WEIGHT (g)	700	850	1	1
-	TEMPERATURE ENVIRONMENT	-30°C to 50°C	-30°C to 50°C	1	1
	KILLING RANGE RADIUS	1	1	1	1
-	MAX RANGE (m)	6500	5480	1	280
also.	MIN RANGE (m)	90	300	1	50
756	FUZE TYPE	UT M88 P1	TP M67	1	1
SHEL	L PACKING	BOXES IN CASE	SHELLS	S IN CARDBOARD	GROSS MASS
CARDBOARD BO	XES IN WOODEN CASE	5		1	35 kg

Shells 120	
Mortar	

	DESIGNATION	HE	HE	HE	PRACTICE
	120 mm	July	July	MA	0
A	DESCRIPTION / MODEL	M62 P8	MK12 P1	MK12 P1-L	M63 P2
A	LENGTH WITH FUZE (mm)	606	606	606	508 (no fuze)
	MASS WITH FUZE (g)	12,6	14.8	14.8	11.6 (no fuze)
4	EXPLOSIVE CHARGE TYPE	RDX / TNT	TNT	TNT	1
	EXPLOSIVE CHARGE MASS (g)	2.45	2.45	2.45	1
	TEMPERATURE ENVIRONMENT	-30°C to 50°C	-46°C to 63°C	-46°C to 63°C	1
	KILLING RANGE RADIUS	20 m	24 m	24 m	1
	MAX RANGE (m)	6500	7400	9400	500
	MIN RANGE (m)	255	255	275	50
新雄	FUZE TYPE	UTU M93 P1 SQ/D	UTU M93P1 SQ/D	UTU M93P1 SQ/D	1
SHEI	LL PACKING	BOXES IN CASE	SHELLS IN (CARDBOARD	GROSS MASS
CARDBOARD BO	IXES IN WOODEN CASE	2	•	Ī	44 kg





FUZE TP - M67 P1



PURPOSE The fuze is intended for Illuminating mortar shell and Long-smoking shells, Cal. 60 mm

DESCRIPTION TP - M 67 P1 is time - pyrotechnic fuze on zirconium basis

FUZE TP - M67 P1



PURPOSE The fuze is intended for Illuminating mortar shell and Long-smoking shells, Cal. 81/82 mm

DESCRIPTION TP - M 87 is time - pyrotechnic fuze on zirconium basis

FUZE TP - M87



PURPOSE The fuze is intended for Illuminating mortar shell and Long-smoking shells, Cal. 60 mm

DESCRIPTION TP - M 87 is time - pyrotechnic fuze on zirconium basis

FUZE ETU - M365



PURPOSE Electronic Time Fuze ETU, M365 is intended for assembling of Illuminating and Smoke Mortar shells of 60mm, 81/82mm and 120mm calibers

The Fuze ETU, M365 is based on modern microprocessor technology. Time recording is DESCRIPTION performed by means of time setter. The set fuze time is stored for 20 minutes, thereafter being automatically erased in order to safe battery power

FUZE UT - M68 P1



The fure is intended for assembling of HE mortar shells and SMOKE mortar shells of all PURPOSE calibers with bearings that are compatible with connecting measures or can be assembled with appropriate adaptors

DESCRIPTION UT-M68P1 is mechanical, point- detonating, impact fuze of superquick action

FUZE UT - M88 P1



PURPOSE

PURPOSE

The fuze is intended for assembling of HE and SMOKE mortar shells of all calibers with bearings that are compatible with connecting measures or can be assembled with appropriate adaptors

DESCRIPTION UT – M88 is mechanical, point-detonating, impact fuze of superquick action equipped with hard trans-port safety element including an ancillary safety mechanism

FUZE UT - M88 P2



PURPOSE

The fuze is intended for assembling of HE and SMOKE mortar shells of all calibers with bearings that are compatible with connecting measures or can be assembled with appropriate adaptors

UT – M88 P2 is mechanical, point-detonating, impact fuze of superquick action DESCRIPTION equipped with hard transport safety element including an ancillary safety mechanism

FUZE PD UTU - M93-N



The fure is intended for assembling of HE mortar shells of all calibers with bearings that are compatible with connecting measures or can be assembled with appropriate adaptors

PD UTU, M93 is mechanical, point-detonating, impact fuze of superquick and delay action DESCRIPTION adjustable by a mode selector (superquick "T" or delay "U"). It is equipped with hard transport safety element including an ancillary safety mechanism

FUZE PD UTU - M93 P1



PURPOSE

The fure is intended for assembling of HE mortar shells of all calibers with bearings that are com-patible with connecting measures or can be assembled with appropriate adaptors.

PD UTU, M93 is mechanical, point-detonating, impact fuze of superquick and delay action
DESCRIPTION adjustable by a mode selector (superquick "T" or delay "U"). It is equipped with hard
transport safety element including an ancillary safety mechanism

FUZE UTU - M78 (AU-29)



PURPOSE The fuze is intended for HE mortar shells of superquick action, Cal. 120 mm.

UTU - M78 is point - detonating, mechanical fuze of superquick and delay action adjustable DESCRIPTION by sleeve turning. It is equipped with transport safety element for handling, transportation and parachuting

FUZE UTU - M77



PURPOSE The fuze is intended for "OGANJ" HE warhead, Cal. 128 mm

DESCRIPTION UTU - M77 is point - detonating, mechanical, impact fuze of superquick and delay action adjustable by a mode selector (superquick "T" or delay "U")





PURPOSE

The fuze is intended to initiate the explosion of HEAT warhead of the 57 mm missile when **PURPOSE** fired from honeycomb L - 57 type launchers having the tube rear part open

DESCRIPTION UTI – 1 is point – detonating, mechanical, impact fuze with remote arming and self – destruction devices

FUZE UTI - 2



PURPOSE

The fuze is intended to initiate the explosion of HEAT warhead of the 57 mm missile when fired from honeycomb L - 57 type launchers having the tube rear part open

DESCRIPTION The fuze is intended for "MUNJA" HEAT warhead, Cal. 128 mm

PURPOSE

FUZE UTI - M84



The fuze is intended for M63, M87 and PLAMEN-D missiles, Cal. 128 mm equipped with superquick blast warhead as well as for missile with smoke warhead of same caliber

DESCRIPTION UTI - M84 is point - detonating, mechanical, impact fuze of superquick and inertia action



The fuze is intended for M15 rocket, Cal.107mm equipped with superguick blast warhead as well as for missile with smoke warhead of same caliber

PURPOSE

UTI – M84 P1 is point $\hat{a}\pmb{\in}"$ detonating, mechanical, impact fuze of superquick and inertia DESCRIPTION

action

FUZE UTIU - M72 B1 (AU - 18)



UTIU - M72 B1 is point - detonating, mechanical fuze of superquick, inertia and delay action adjustable by sleeve turning and cap removing

DESCRIPTION The fuze is intended for HE grenades, Cal. 85, 100, 122, 130 and 152 mm

FUZE UTIU- M85 (AU - 20E)



UTIU - M72 B1 is point - detonating, mechanical fuze of superquick, inertia and **PURPOSE** delay action adjustable by sleeve turning and cap removing

DESCRIPTION The fuze is intended for HE grenades, Cal. 85, 100, 122, 130 and 152 mm

FUZE UTIU, M15



PURPOSE The fuze is intended for HE projectile, Cal. 155 mm M107

DESCRIPTION UTIU, M15 is point-detonating, mechanical fuze of superquick, inertia and delay action adjust-able by sleeve turning.

FUZE MRV-U (AU - 32)



PURPOSE The fuze is intended for "GRAD" HE warhead, Cal. 122 mm

MRV-U – M 85 is point-detonating, mechanical fuze of superquick and delay action. Action selecting by turning of sleeve DESCRIPTION

FUZE AUFK - M91



PURPOSE The fuze is intended for high-explosive aircraft bombs with or without drag chute

DESCRIPTION

 $\hbox{AUFK-M\,91}\ is\ impact\ , inertia-type\ of\ an\ electric\ -\ mechanical\ fuze\ for\ \ aircraft$ bombs with superquick (T) and delay action (U) adjustable by mode selector









Ammunition





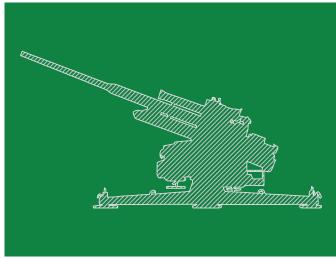


Small Caliber Ammunition
Large Caliber Ammunition
Artillery Ammunition
Rocket weapons
olice Program

Anti-Aircraft Ammunition









Anti-aircraft guns are weapons designed to attack aircraft. Such weapons commonly have a high rate of fire and are able to fire shells designed to damage aircraft. They also are capable of firing at high angles, but are also usually able to hit ground targets as well in a direct fire role.



23mm x 115 for AA MK GUN GSH-23L and GSH-23LU

none

HE

182

78

19.6

440

RDX

236

970

5.6-11.2

none

none

ROUNDS IN CASE

100

HEI

182

78

19.6

440

RDX+AL

236

970

5.6-11.2

none

ROUNDS IN CASE

TRACER BURNING TIME (s)

NATO DESIGNATION

23 mm

WEIGHT (g) PROJECTILE (g)

PROPELLANT (g)

EXPLOSIVE TYPE

WOODEN CASE

COMPLETE ROUND (g)

LENGTH (COMPLETE ROUND)

SELF-DESTRUCTION TIME (s)

TRACER BURNING TIME (s)

MUZZLE VELOCITY (m/s)

EXPLOSIVE (g)

PACKING

WOODEN CASE

NATO DESIGNATION

20 mm

PROJECTILE (g)

PROPELLANT (g)

EXPLOSIVE (g)

EXPLOSIVE TYPE

PACKING

WOODEN CASE

COMPLETE ROUND (g)

LENGTH (COMPLETE ROUND)

SELF-DESTRUCTION TIME (s)

TRACER BURNING TIME (s)

NATO DESIGNATION

MUZZLE VELOCITY (m/s)

WEIGHT (g)

HE

122

29

12.1

246

RDX

184

845

4.5-8

HE

HEI

122

29

12.1

246

RDX+AL

184

845

4.5-8

ROUNDS IN CASE

100

HEI

HE-T HEI-T

122

29

6.1

246

RDX

184

845

4.5-8

3.5

HE-T HEI-T

122

29

6.1

246

RDX+AL

184

845

4.5-8

3.5

3.5

HE-T

190

78

16.3

450

RDX

236

970

5.6-11.2

3.5

none

HEI-T

190

78

16.3

450

EDX+AL

236

970

5.6-11.2

3.5

DIMENSIONS

688 x 286 x 229 mm

none

API-T

142

32

none

265

none

182

844

none

3.5

API-T

API

142

32

none

265

none

182

844

none

3.5

API

AP-T

142

32

none

265

none

182

844

none

DIMENSIONS

660 x 232 x 200 mm

142

32

265

none

182

844

none

DIMENSIONS

705 x 250 x 202 mm

API

190

78

5

450

none

236

970

5.6-11.2

API-T

190

78

5

450

none

236

970

5.6-11.2

3.5

122

29

246

none

182

845

none

TP-T

122

29

none

246

none

184

845

none

3.5

122

29

none

246

none

184

845

none

ΤP

119

29

none

246

none

184

845

none

GROSS MASS

34 kg

BLANK

min 70

29

195

none

184

none

none

34 kg

GROSS MASS

42 kg

182

78

none

440

none

236

970

5.6-11.2

TP-T

190

78

none

450

none

236

970

5.6-11.2

3.5

GROSS MASS

44 kg

min 70

29

none

195

none

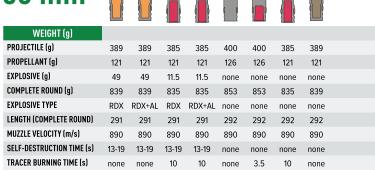
184



23mm x 115B for AA GUN ZU-2 and ZSU-4

30 mm

NATO DESIGNATION



W00	DEN CASE		30				576 x	338 x 21	8 mm	37 kg
PA	ACKING	ROL	JNDS IN C	ASE			DII	MENSION	IS	GROSS MAS
	TRACER BURNING TIME (s)	none	none	10	10	none	3.5	10	none	
	SELF-DESTRUCTION TIME (s)	13-19	13-19	13-19	13-19	none	none	none	none	
	MUZZLE VELOCITY (m/s)	890	890	890	890	890	890	890	890	
	LENGTH (COMPLETE ROUND)	291	291	291	291	292	292	292	292	
	EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none	
	COMPLETE ROUND (g)	839	839	835	835	853	853	835	839	

NATO DESIGNATION 30 mm

HE	HEI	AP	AP-T	TP



30mm x 165 RB for AA GUN 30mm GSH 301

30mm x 210B for AA GUN 30mm AK-230

WEIGHT (g) PROJECTILE (g) 389 389 400 400 389 PROPELLANT (g) 121 121 126 126 121 EXPLOSIVE (g) 49 49 none none none COMPLETE ROUND (g) 840 840 850 850 840 **EXPLOSIVE TYPE** RDX RDX+AL none none LENGTH (COMPLETE ROUND) 290 290 290 292 292 MUZZLE VELOCITY (m/s) 860 860 860 860 860

NATO DESIGNATION

30 mm

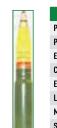
WOODEN CASE

M53, 53/59

,	WOODEN CASE		30				576 x 338 x 218 mm	37 kg	
	PACKING	ROU	NDS IN (CASE			DIMENSIONS	GROSS MASS	S
	TRACER BURNING TIME (s)	none	none	none	3.5	none			
-	SELF-DESTRUCTION TIME (s)	none	none	none	3.5	none			

HEI

HE-T	HEI-T	AP	AP-T	TP-T	TP
205	205	400	400	205	200



PROJECTILE (g) 385 389 385 385 400 400 385 389 385 385 400 400 385 389 385 385 400 400 385 389 385 385 400 400 385 389 385	VCKING	DO	INDE IN C	ACE	DIMENO	CIONIC	CI	nee MAC	c
PROJECTILE (g) 385 389 385 385 400 400 385 389 PROPELLANT (g) 121 121 121 121 126 126 126 121 121 121 121 126 126 126 121 121 121 125 11.5 none 292 292	TRACER BURNING TIME (s)	none	none	10	10	none	3.5	10	none
PROJECTILE (g) 385 389 385 385 400 400 385 389 PROPELLANT (g) 121 121 121 121 126 126 126 121 121 121 EXPLOSIVE (g) 49 49 41.5 11.5 none none none none none COMPLETE ROUND (g) 833 833 835 835 853 853 835 833 EXPLOSIVE TYPE RDX RDX+AL RDX RDX+AL none none none none LENGTH (COMPLETE ROUND) 292 292 291 291 292 292 291 291	SELF-DESTRUCTION TIME (s)	7.5-14.5	7.5-14.5	7.5-14.5	7.5-14.5	none	none	none	none
PROJECTILE (g) 385 389 385 385 400 400 385 389 PROPELLANT (g) 121 121 121 121 126 126 126 121 121 121 EXPLOSIVE (g) 49 49 49 11.5 11.5 none none none none COMPLETE ROUND (g) 833 833 835 835 853 853 835 EXPLOSIVE TYPE RDX RDX+AL RDX RDX+AL none none none none	MUZZLE VELOCITY (m/s)	960	960	960	960	970	970	960	960
PROJECTILE (g) 385 389 385 385 400 400 385 389 PROPELLANT (g) 121 121 121 121 126 126 126 121 121 EXPLOSIVE (g) 49 49 411.5 11.5 none none none none COMPLETE ROUND (g) 833 833 835 835 853 853 835	LENGTH (COMPLETE ROUND)	292	292	291	291	292	292	291	291
PROJECTILE (g) 385 389 385 385 400 400 385 389 PROPELLANT (g) 121 121 121 121 126 126 121 121 121 EXPLOSIVE (g) 49 49 11.5 11.5 none none none none	EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	none	none	none	none
PROJECTILE (g) 385 389 385 385 400 400 385 389 PROPELLANT (g) 121 121 121 121 126 126 121 121 121	COMPLETE ROUND (g)	833	833	835	835	853	853	835	833
PROJECTILE (g) 385 389 385 385 400 400 385 389	EXPLOSIVE (g)	49	49	11.5	11.5	none	none	none	none
	PROPELLANT (g)	121	121	121	121	126	126	121	121
WEIGHT (g)	PROJECTILE (g)	385	389	385	385	400	400	385	389
	WEIGHT (g)								

PACKING	RO	DUNDS IN C	ASE	DIME	ISIONS		GROSS M	ASS
WOODEN CASE		30		576 x 338	3 x 218 m	m	37 kç	3

MINO	110	ONDO IN C	AUL	Diritti	010110		OILUUU II	700
EN CASE		30		576 x 338	x 218 m	m	37 k	9
NATO DESIGNATION	HE	AP-T	TP		HEI	HEI-T	TP-T	BLA
30 mm								

	30 mm						
	WEIGHT (g)				1		
3	PROJECTILE (g)	356	350	356		435	435
	PROPELLANT (g)	190	190	190		195	195
	EXPLOSIVE (g)	31.1	none	none	拜	40.8	35.7
6.20	COMPLETE ROUND (g)	1066	1050	1066	6.34	1140	1140
	EXPLOSIVE TYPE	RDX+AL	none	none		RDX+AL	RDX+AL
	LENGTH (COMPLETE ROUND)	304	304	304	1,74	331	331

AK-230 WOODEN CASE			37 / 40		576 x338 x 218 mm			37 ka	
PACKING		ROUNDS IN CASE		ASE	DIMENSIONS		GR	OSS MAS	SS
	TRACER BURNING TIME (s)	none	min 2	none		none	4	4	none
100	SELF-DESTRUCTION TIME (s)	12-7	none	none		9-13	9-13	none	none
6.7	MUZZLE VELOCITY (m/s)	1060	1095	1060	B. 1	997	997	997	1
18	LENGTH (COMPLETE ROUND)	304	304	304	1.5	331	331	331	331
	EXPLOSIVE TYPE	RDX+AL	none	none		RDX+AL	RDX+AL	none	none
6(3)	COMPLETE ROUND (g)	1066	1050	1066	6.34	1140	1140	1140	min 960 .
1	EXPLUSIVE (g)	31.1	none	none	++1	40.8	35./	none	none

40

642 x 355 x 176 mm



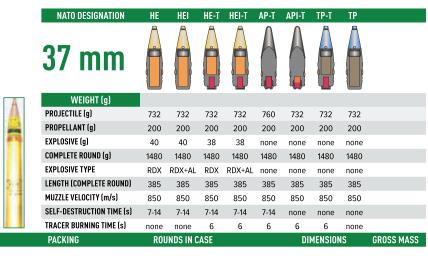
min 250

435 195

61 kg

30mm x 220 for AA GUN 30/2 M53, 53/59 [CS]

30mm x 165 for AA GUN 30mm 2A72, 2A42 and 2A381



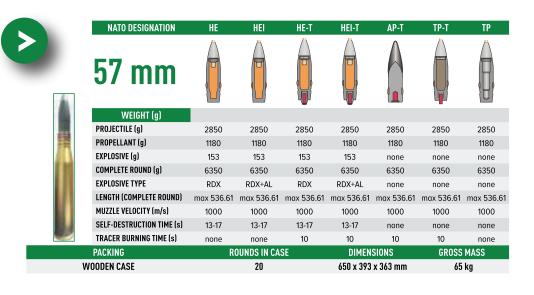




	NATO DESIGNATION	HE	HEI	HE-T	HEI-T	PFHE	AP-T	TP-T	TP	BLANK
	40 mm									
1	WEIGHT (g)									
1	PROJECTILE (g)	964	964	964	964	880	930	964	964	920
212	PROPELLANT (g)	480	480	480	480	480	480	480	480	480
1	EXPLOSIVE (g)	95	95	83	83	83	none	none	none	none
()	COMPLETE ROUND (g)	2500	2500	2500	2500	2420	2470	2500	2500	2450
	EXPLOSIVE TYPE	RDX	RDX+AL	RDX	RDX+AL	RDX	none	none	none	none
	LENGTH (COMPLETE ROUND)	535	535	535	535	534.5	497	535	535	535
	MUZZLE VELOCITY (m/s)	1005	1005	1005	1005	1025	1025	1005	1005	none
1.66	SELF-DESTRUCTION TIME (s)	8-13	8-13	8-13	8-13	3.5-10	none	none	none	none
	TRACER BURNING TIME (s)	/	/	4	4	1	4	4	/	1
	PACKING	RO	JNDS IN C	ASE			DII	MENSION	S	GROSS MASS

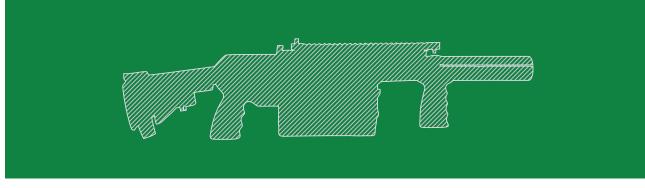
40mm x 365 for AA GUN 40mm L/70 "B0F0RS"

7mm x 248 for Self-propelled AA Gun 57mm S/68 and S/60



Grenades 30mm / 40mm









	30mm HE, M93 P1	30mm TP, M93	30mm PM, M93 P1
NATO DESIGNATION	HE	TP	PM
30 mm		Market Train	
WEIGHT (g)			
MASS OF ROUND (g)	360	360	360
MASS OF PROJECTILE (g)	273	273	273
LENGTH (mm)	132	132	132
MUZZLE VELOCITY (m/s)	185	185	185
MAXIMUM RANGE (m)	1700	1700	1700
TYPE	UT M99 SD	TRAINING PRACTICE	UT M02 PM SD
SELF DESTRUCTION (s)	27	1	27
SAFETY DISTANCE	10 m in front of barrel	/	10 m in front of barrel

	M99	M99	M99	M03
NATO DESIGNATION	HEPD-SD	HEDP-SD (DUAL PURPOSE)	TPSFM	HE
40 mm				
WEIGHT (g)				
MASS OF ROUND (g)	104	104	104	106
MASS OF GRENADE (g)	250	250	233	360
PROJECTILE LENGTH (mm)	82	82	82	1
MASS OF EXPLOSIVE (RDX) (g)	48	35	1	1
MUZZLE VELOCITY (m/s)	78	78	76	76
ARMING DISTANCE OF FUZE (m)	8-30	8-30	8-25	50
MAXIMUM RANGE (m)	400	400	400	400
SELF DESTRUCTION (s)	15-20	15-20	15-20	15-20
PENETRATION (mm)	1	min 25 (armour steel plate)	1	1
SAFETY DISTANCE	1	/	1	15 m in front of barrel

	M04	M04	M01
NATO DESIGNATION	RED STAR WITH PARACHUTE	ILLUMINATING WITH PARACHUTE	ILLUMINATING
40 mm			The same of the sa
WEIGHT (g)			
COMPLETE GRENADE LENGTH (mm)	114	114	
MASS OF GRENADE (g)	250	250	265
PROJECTILE LENGTH (mm)	82	82	1
MASS OF PROJECTILE (g)	200	/	1
MUZZLE VELOCITY (m/s)	78	78	76
DELAY TIME (s)	2-3	2-3	1
BURNING TIME OF STAR (s)	min 15	min 15	min 20
LIGHT INTENSITY OF STAR (cd)	min 10 000	min 80 000	min 80 000
FLARE TYPE	green / blue / yellow / white	white	white

	M99	M99	M01 S	M99
NATO DESIGNATION	SMOKE WHITE	SMOKE CS	SMOKE	FLASH
40 mm			All the second s	
WEIGHT (g)				
MASS OF ROUND (g)	106	106		106
MASS OF GRENADE (g)	230	220	250	230
PROJECTILE LENGTH (mm)	76	76	115	76
MASS OF EXPLOSIVE (RDX) (g)	180	170	1	180
MUZZLE VELOCITY (m/s)	78	78	75	78
SMOKE TIME (s)	min 20	min 20	60	1
FIRING RANGE (m)	50-400	50-400	max 400	50-400
DELAY TIME (s)	2-3	2-3	1	2-3
SOUND INTENSITY (db)	1	1	1	120
LIGHT INTENSITY (cd)	1	I	1	2 000 000
FLARE TYPE	white	white / red / green / yellow	1	1

MOL	MOS Flechette
Mark.	250
	MO4 PROXISEOT 250

WEIGHT (g)		
WZ (d	250	250
LEMITO (max)	106	104
MUSZUE AUTOCILLA (myr)	50	200
HAZDAM RAKE (m)	400	50-100
MARK OL LETTES (IE2)	min 60	1
PELLET NOVETER (mm)	8	1
MANUER OF FLECT ETTED (pos)	1	min 60
PLECAETTE OMNOTER / LEZETTE ()	£	50/2



MRE GROWER	Méd	Mes	MZ	M60 P1
NATO DEBIGNATION	ANTHANK	SHOOKE	ILLUM INLATING	FRAGNENTATION
60 mm				
WEIGHT (g)				
W25 (g)	610	475	450	520
	390	390	390	307
METERIDA (ma)	200 (ct 100 m)	1	I	1
SOUTHER	1	70-100	7	1
DUMENO TIME (n)	1	1	min 24	1



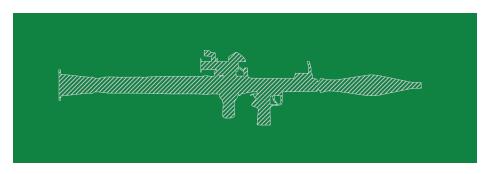
RIFLE GREKAGES WITH DULLET TRAP	M91 P1	MPP	MO
MAJTO DESIGNATION	Æ	E	IE IT
30 mm			

WEIGHT (g)			
MAS (d)	656	656	460
	36	315	270
UNE	fragmer#asen	fragmentation	freg memoron
RUE	Impact, superquick action	Impact, superquick action	impact, superquick action
ACTION ON FRAMEBITS IN FIELD	100 m in dia	100 m in dia	100 re in die
AID4 NE ORTOVICE (m)	Grenade must act, upon conducant limin thick, at the distance of 50 m	Grenode must act, upon continued from thick, at the distance of 50 m	Grenade must act, upon cardboard from thick, at the distance of 50 m
BERNALE EFFECT	Hove 100 percebables brough a board 20 min tick, at pen test D=10 m and 1,5m high	Hove 380 permitteling trough a beard 20 mm tide, at pan test 0=10 m and 1,5re high	How 100 penetrations troug a board 20 mm tick, at pen test D=10 m and 1,0m high
SELF DESTRUCTION THE (a)	15-20	15-20	15-20
CAFETY CHITMANE	Min. 20 m in front of barret	Min 36 m in front of barrel	Min. 15 m in work of bornet

Recoilless Launchers







A rocket is a self-propelled, unguided weapon system powered by a rocket motor. Rockets are used primarily as medium and long-range artillery systems, although historically they have also seen considerable use as air-to-ground, some use as air-to-air weapons, and even a few examples of surface-to-air devices.



SPECIFICATION	
ТҮРЕ	HEAT
LENGTH (mm)	672
MASS (g)	3630
PENETRATION (mm)	> 450 (on homogeneous armour plate)
MUZZLE VELOCITY (m/s)	245
EFFECTIVE RANGE (m)	350
MAXIMUM RANGE (m)	1960
PACKAGE (UNITS)	3
PACKAGE WEIGHT (kg)	25.3
FUZE	Impact, superquick, piezoelectric with self destruction, (UT PE M80 SP

90mm Hand Rocket Launcher – RBR M79

64mm Hand Anti Tank Rocket – RBR M80





	TYF
	LEN
	LEN
	MA
	PEN
M	MU
١.	EFF
	MA
	PAC
1	PAC
-	FUZ

SPECIFICATION	
ТҮРЕ	HEAT
LENGTH IN TRAVELING POSITION (mm)	800
LENGTH IN COMBAT POSITION (mm)	1200
MASS (g)	
PENETRATION (mm)	> 300 (on homogeneous armour plate)
MUZZLE VELOCITY (m/s)	
EFFECTIVE RANGE (m)	
MAXIMUM RANGE (m)	
PACKAGE (UNITS)	
PACKAGE WEIGHT (kg)	
FUZE	Impact, superquick, piezoelectric with self destruction, (UT PE M80 SP)

3

120mm Light Anti Tank Weapon – RBR M90



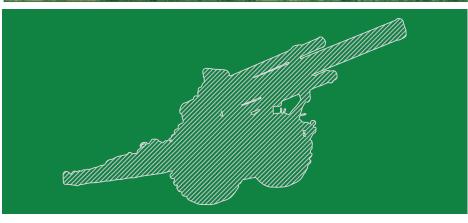


SPECIFICATION	
TYPE	HEAT
LENGTH (mm)	1350
MASS (kg)	13
PENETRATION (mm)	> 800 (on homogeneous armour plate)
MUZZLE VELOCITY (m/s)	205
EFFECTIVE RANGE (m)	250
MAXIMUM RANGE (m)	1960
PACKAGE (UNITS)	2
PACKAGE WEIGHT (kg)	56
FUZE	Impact, superquick, piezoelectric with self destruction, (UT PE M80 SP)

Artillery Shells







A shell is a payload-carrying projectile that, as opposed to shot, contains an explosive or other filling, though modern usage somtimes include large solid projectiles properly termed shot. (not verified in body) Solid shot may contain a pyrotechnic compound if a tracer or spotting charge is used. Originally, it was called a "bombshell", but "shell" has come to be unambiguous in a military conext.



Round 76 mm Seperate Loaded for Gun 76 mm M48 B1

	NATO DESIGNATION	HE	SMOKE	
	76 mm			
	DESCRIPTION	SHELL M55	SHELL M60	
	PROJECTILE WEIGHT (kg)	6.2	5.9	
1	EXPLOSIVE (kg)	0.43	0.45	
1	CARTRIDGE CASE (kg)	1.55	1.55	
	EXPLOSIVE TYPE	TNT	WP	
	PROJECTILE LENGTH (mm)	347	347	
1.0	MUZZLE VELOCITY (m/s)	398	398	
	MAXIMUM RANGE (m)	8750	8750	
	FUZE	UTI M68, UTIU M02, UTIU M03	UTI M68	
P	ACKING	ROUN	DS IN CASE	GROSS MASS
W00	DEN CASE		3	39 kg











NATO DESIGNATION	HE	HE	SMOKE	SMOKE
122 mm				
DESCRIPTION	SHELL TF-462A1	SHELL TF-462A1	M60	M60
PROJECTILE WEIGHT (kg)	21.88	21.88	21.76	21.76
EXPLOSIVE (kg)	3.60	3.60	3.60	3.73
CARTRIDGE CASE (kg)	3.66	3.66	3.66	3.66
EXPLOSIVE TYPE	TNT	TNT	WP	WP
PROJECTILE LENGTH (mm)	561	561	561	561
MUZZLE VELOCITY (m/s)	565	690	565	690
MAXIMUM RANGE (m)	12840	15300	12840	15300
FUZE	UTIU M72 B1, UTI	U M02, UTIU M03	UTIU I	M72 B1

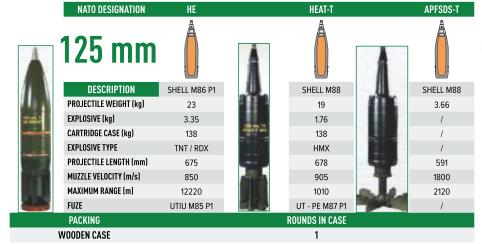


Round 122 mm SEPERATE LOADED for HOWITZER D-30, D30J, SP 2SI

Round 122 mm SEPERATE LOADED



	NATO DESIGNATION	HE	SMOKE	
	122 mm			
ľ	DESCRIPTION	SHELL TF-462A1	M60	
1	PROJECTILE WEIGHT (kg)	21.88	21.88	
1	EXPLOSIVE (kg)	3.60	3.60	
	CARTRIDGE CASE (kg)	2.94	2.94	
	EXPLOSIVE TYPE	TNT	WP	
	PROJECTILE LENGTH (mm)	561	561	
	MUZZLE VELOCITY (m/s)	515	515	
	MAXIMUM RANGE (m)	11800	11800	
	FUZE	UTIU M72 B1, UTIU M02, UTIU M03	UTIU M72 B1	
PA	CKING		ROUNDS IN CASE	GROSS MASS
W00I	DEN CASE		2	18 kg













NATO DESIGNATION	HE	HE	
130 mm			
DESCRIPTION	SHELL M79	SHELL M79	
PROJECTILE WEIGHT (kg)	33.40	33.40	
EXPLOSIVE (kg)	3.64	3.64	
CARTRIDGE CASE (kg)	11.35	6.75	
EXPLOSIVE TYPE	TNT	TNT	
PROJECTILE LENGTH (mm)	671	671	
MUZZLE VELOCITY (m/s)	930	705	
MAXIMUM RANGE (m)	27490	13310	
FUZE	UTIU M72 B1. UTII	I MO2 UTIU MO3	

PACKING	ROUNDS IN CASE	GROSS MASS
WOODEN CASE	2	18 kg



152 mm



III.

DESCRIPTION	SHELL OF-540	SHELL OF-540	
PROJECTILE WEIGHT (kg)	43	43	
EXPLOSIVE (kg)	5.86	5.86	
CARTRIDGE CASE (kg)	7.50	7.50	
EXPLOSIVE TYPE	TNT	TNT	
PROJECTILE LENGTH (mm)	700	700	
MUZZLE VELOCITY (m/s)	655	511	
MAXIMUM RANGE (m)	17400	13400	
FUZE	UTIU M72 B1, UTI	U M02, UTIU M03	
PACKING	ROUNDS	IN CASE	GROSS MASS
OODEN CASE	:	2	18 kg



Round 152 mm SEPERATE LOADED for GUN-HOWITZER D-20

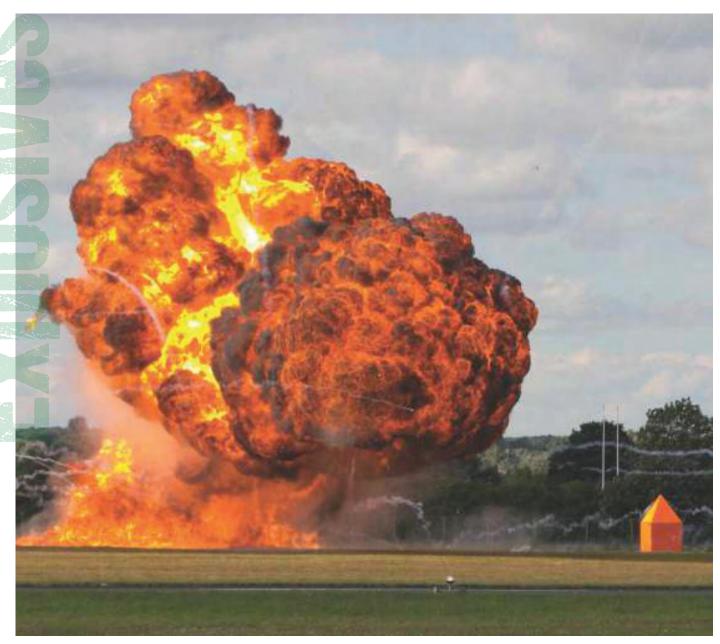
Round 155 mm for HOWITZERS M198, FH70, FH77, M109 A2 and GUN 45



NATO DESIGNATION	ERFB/BB	ERFB	HE
155 mm			
DESCRIPTION			
PROJECTILE WEIGHT (kg)	47.6	45.54	42.6
EXPLOSIVE (kg)	8.71	8.71	8
CARTRIDGE CASE (kg)	/	/	1
EXPLOSIVE TYPE	TNT / RDX	TNT / RDX	TNT
PROJECTILE LENGTH (mm)	861	843	807
MUZZLE VELOCITY (m/s)	925 (52 cal.)	925 (52 cal.)	925 (52 cal.)
MAXIMUM RANGE (m)	41850 (52 cal.)	34000 (52 cal.)	32000 (52 cal.)
FUZE	UTIU M02, UTIU M03		M03



Explosives







PENTHRITE (PETN)



Penthrite (PETN), one of the most powerful and most bristant explosive, is used in the manufacture of detonating fuse, detonators, industrial explosive slurries and plastic explosives. If phlegmatized with wax, it is used in various types of ammunition.

OCTOGEN (HMX)



Octagen (HMX) is used exclusively for military purposes to implode fissionable material in nuclear devices, as a component of plastic-bonded explosives, as a component rocket propellant, and as a high explosive buster charge.

TRINITROTOLUENE (TNT)



Military grade TNT is widely used as a bursting charge for high explosive shells, aircraft bombs, grenades, naval mines and etc. It is also used in boosters, detonators, demolition charges and as an ingredient in slurries and for mining industries.

HEXOGEN (RDX)



Hexogen (RDX) can be used alone as a base charge for detonators or mixed with another explosive such as TNT, which produce a bursting charge for aerial bombs, mines, and torpedoes or as an ingredient in plastic bonded explosives.

ANFO EXPLOSIVE



ANFO has a wide variety of applications in dry hole blasting conditions. It is on of the most cost effective blasting agents available for use in large hole diameter mining through to small hole diameter quarrying. ANFO provides excellent heave energy.

BOOSTERS



Boosters are made of cast TNT/RDX mmixtures with an integrated primer charge of pressed tetryl or PETN which produces high velocity of detonation and detonating pressures, ensuring reliable initiation of bulk and cartridge explosives.











Frag grenades Smoke grenades Protective masks





Hand thrown grenade M2, CSis designed for a special military and police units in anti riot control operations for temporary incapacitating of unprotected crowd in open and closed area. When thrown to a target, contaminate area and temporary disable crowd. Causes hard irritation, teasing of eyes and mucous membrane, plenty tearing, cough, uneasiness breath and choking without injury.



HAND THROWN GRENADE M1, CS

Hand thrown grenade M1. CS is designed for a special military and police units in antiriot control operations for temporary incapacitating of unprotected crowd in open and closed area. When thrown to a target, contaminate area and temporary disable crowd. Provokes hard irritation, teasing of eyes and mucous membrane, plenty of tearing, cough, uneasiness breath and choking without injury.



Special hand thrown grenade M79 AF-1S is chemical explosive device designed for a special military and police units in anti riot control operations, for temporary incapacitating of unprotected crowd in open and closed area.



Cluster (cassette) hand grenade CS is chemical device designed for a special military and police units in anti riot control operations for temporary incapacitating of unprotected crowd in open and closed area.

HAND THROWN GRENADE THREE PART, CS

RBT-CS is designed for special military and police units in anti riot control operations for temporary incapacitating of unprotected crowd in open and closed area. When thrown to a target, contaminate area and temporary disable crowd. Provokes hard irritation, teasing of eyes and mucous membranes, plenty of tearing, cough, uneasiness breath and choking without injury.

LAUNCHING-HAND THROWN GRENADE M3, CS



Launching-hand thrown grenade M3, CS is designed for special military and police units in anti riot control operations for temporary incapacitating of unprotected crowd in open and closed area. When thrown to a target, contaminate area and temporary disable crowd. Provokes hard irritation, teasing of eyes and mucous membranes, plenty of tearing, cough, uneasiness breath and choking without injury.

LAUNCHING-HAND THROWN THREE PART GRENADE M1, CS



Launching-hand thrown three part grenade M1, CS is designed for a special military and police units in anti riot control operations for temporary incapacitating of unprotected crowd in open and closed area. When thrown to a target, contaminate area and temporary disable crowd. It provokes hard irritation, teasing of eyes and mucous membranes, plenty of tearing, cough, uneasiness breath and choking without injury.

RAPID SMOKE, CS



Rapid smoke, CS is designed for special military and police units in anti riot control operations, for temporary incapacitating of unprotected crowd in open and closed area. When thrown to a target, contaminates area and temporary disable crowd. It provokes hard irritation, teasing of eyes and mucous membrane, plenty of tearing, cough, uneasiness breath and choking without injury.

HAND THROWN CARTON GRENADE, CS



Hand thrown carton grenade, CS is designed for a special military and police units in anti riot control operations, for temporary incapacitating of unprotected crowd in open and closed area. When thrown to a target, contaminates area and temporary disable crowd. It provokes hard irritation, teasing of eyes and mucous membranes, plenty of tearing, cough, uneasiness breath and choking without injury.

SMOKE HAND GRENADE 1, COLOR BD-1



Smoke hand grenade 1, color BD-1 is designed as signaling and camouflage device, intended for day and night signalization for different applications, for marking of area for landing of planes, for jumping of parachutists, for determination of wind blowing, camouflaging of individuals and groups in one place or in movement, giving signals on land or sea, from floating objects or mountains. Can be used also in practice for handling with irritating devices or for simulation of variable activities at the site.

SMOKE HAND GRENADE 2, COLOR BD-2



Smoke hand grenade 2, color BD-2 is designed as signaling and camouflage device, intended for day and night signalization for different applications, for marking of area for landing of planes, for jumping of parachutists, for determination of wind blowing, camouflaging of individuals and groups in one place or in movement. Can be used also in practice for handling with irritating devices or for simulation of variable activities at the site.

FLAMABLE HAND THROWN GRENADE BRZ M90



Flamable hand thrown grenade BRZ M90 is designed for a special military and police units applications, in setting fire to technical and military equipment, light bunkers and storage made of wood and earth. Also is applicable in destroying enemy, situated in small and easy flammable bunkers and shelters.



MASK M2

The M2 protective mask is intended specifically for for protection of the eyes, face and respiratory organs of the user against NBC contaminants in the form of gases, vapours, solid and liquid aerosols and dust particles as a result of the use of nuclear, chemical and biological weapons. The mask, together with appropriate filters, provides protection against contamination due to chemical accidents. The mask is used in the atmosphere containing at least 17% oxygen.

MASK M2 F



The M2 F protective mask complete with NBC M2 filter is intended specifically for efficient protection of eyes, face and respiratory organs against NBC contaminants in the state of gases, vapors, solid and liquid aero-sols and dust particles.



MASK M2 FV

The M2 FV protective mask is intended for protection of the eyes, face and respiratory organs of the user against NBC contaminants in the form of gases, vapours, solid and liquid aerosols and dust particles as a result of the use of nuclear, chemical and biological weapons. The mask has a built-in water-drinking system, whose capacity for the free leaking of water into the mask is no less than 200 cm3/minute.

B2-G PANORAMA



The B2-G Panorama mask, type: Class 2 according to the SRPS EN 136, together with the appropriate fitted filter (with a screw according to the SRPS EN 148-1) is intended for protection of respiratory organs, face and the eyes against harmful effects of toxic gases, vapours, dust particles and smoke. It is mainly intended for use in chemical industry, i.e. wherever there are harmful gases, vapours, and particles.

MASK M2 F



The M3 mask, complete set is intended for protection of the respiratory organs, face and eyes of the user against NBC contaminants in the form of gases, vapours, solid and liquid aerosols and dust particles. The mask, together with appropriate filters, provides protection against contamination due to chemical accidents. The complete set includes: the M3 facepiece, the M3 filter, the water bottle with a bag.



Single based powders

SINGLE BASED POWDERS

For all kinds of ammunition from 5.56 to 155 mm:

- hunting and sport ammunition
 - pistol ammunition
- revolver ammunition
- small arms ammunition (from 5.45 mm cal. to 7.9 mm cal.)
- powders for aircraft and anti-aircraft systems (from 12,7 mm cal. to 57 mm cal.)
- all types of powders for artillery ammunition (from 76 mm cal. to 155 mm cal.)

NC-01

APPLICATION: Blank ammunition

CALIBER: 5,56×45 mm 7,62×39 mm

NC-44, NC-16

APPLICATION:

Powder charge

CALIBER:

125 mm



APPLICATION:

"Browning"

CALIBER:

7,62 x 25 mm 7,65 mm 9×19 mm

NC-04

APPLICATION:

Shot shell hunting ammunition

> CALIBER: 12/70 12/76

NC-261



APPLICATION:

CALIBER: 14,5 x 114 mm

Machine gun

CALIBER:

NC-08



APPLICATION:

7,62 x 39 mm

NCD-02



APPLICATION:

Hunting ammunition

CALIBER:

7,62 mm

NC-49



APPLICATION:

57 mm PAV M70 "Bofors"

NCD-06



APPLICATION:

12,7 x 99 mm "Browning" 20 x 110 mm "Hispano"

NC-26



APPLICATION:

12,7 x 108 mm "DŠK"

NC-27, NC-37



APPLICATION:

Powder charges

CALIBER:

M78, 122 mm Ž546U, 152 mm

NC-48





2A42 2A72 Machine gun

CALIBER:

30 x 165 mm

NC-45



APPLICATION:

40 mm L/70 "Bofors"

NCD-27



APPLICATION:

Powder charge

CALIBER:

M4A2, 155 mm (ZONE 7)

NCD-191



APPLICATION:

Powder charges

CALIBER:

M90, 152 mm M93, 152 mm, 105 mm, APFSDS M203, 155 mm (ZONE 9) MC, 155 mm (ZONE 9)

NCD-49, NCD-21



APPLICATION:

Powder charges

CALIBER:

M67, M2A1 105 mm

NC-2



APPLICATION:

Powder charges

CALIBER:

M119A2 155 mm M119A1 155 mm (ZONE 8) MC 155 mm (ZONE 8)

NCD-19



APPLICATION:

Powder charges

CALIBER:

M92, 130 mm M90, 152 mm M11, 155 mm (ZONE 10) MC, 155 mm (ZONE 10)

Double Based Rocket Propellan

DOUBLE BASED ROCKET

PROPELLANT AND

PROPELLANT CHARGES

For all kinds of ammunition from 5.56 to 155 mm:

· Propellant charges of diameter up to 130 mm for rocket motors

· Propellant charges for pyro-charges

for ejection of pilot seats

· Propellant charges for HEAT and artillery ammunition

· Rocket motor propellant charges for air target immitator

• Propellant charges for anti-hail systems

PROPELLANT CHARGE FOR 80 mm AIRCRAFT ROCKET "S-8KOM" AND "S-8KO"



APPLICATION: For anti-armour battle at distances up to 3000 m. Launched from a launching box or from the "POLO" vehicle, as well as from the "Gazela" helicopter. Rocket guidance is manual orsemi-automatic. Rocket penetration is 560 mm behind an ERA.

0.68 kg + 1.5 kg

EFFECTIVE (POINT BLANK) RANGE: 3.000 m

PROPELLANT CHARGE FOR 57 mm AIRCRAFT ROCKETS (S-5M AND S-5K)



APPLICATION: The rocket is a part of the 57 mm multi-tube rocket launcher system, on aircrafts MiG-21, MiG-23 and MiG-27 and Mi-17 and Mi-24 helicopters, intended for neutralizing of enemymanpower and armoured vehicles.

MASS: 1.13 (0.88) kg

EFFECTIVE (POINT BLANK) RANGE: 3.000 to 4.000 m

PROPELLANT CHARGE FOR 122 mm ROCKET ,,GRAD"



APPLICATION: The rocket is a part of the LRSV 122 mm "GRAD" multi-tube rocket launching system, intended for neutralizing of enemy manpower, weaponry and lightly armoured targets.

EFFECTIVE (POINT BLANK) RANGE: 20.500 m

PROPELLANT CHARGE FOR 128 mm ROCKET, M63 "PLAMEN-A"



APPLICATION: The rocket is a part of the LRSV 128 mm multi-tube rocket launcher system and self-propelled, multi-tube rocket launcher LRSV 128 mm, M63/94, intended for neutralizing of enemy manpower, weaponry and lightly armoured targets.

MASS.

EFFECTIVE (POINT BLANK) RANGE: 8.600 m

PROPELLANT CHARGE FOR128 mm ROCKET, M08 "PLAMEN-D"



APPLICATION: The rocket is a part of the LRSV 128 mm multi-tube rocket launcher system and self-propelled, multi-tube rocket launcher LRSV 128 mm, M63/94, intended for neutralizing of enemy manpower, weaponry and lightly armoured targets.

8.23 ka

EFFECTIVE (POINT BLANK) RANGE: 12.700 m



PROPELLANT CHARGE FOR 80 mm AIRCRAFT ROCKET ..S-8KOM" AND ..S-8KO"

APPLICATION: The rocket is a part of the LRSV 128 mm multi-tube rocket launcher system and self-propelled, multi-tube rocket launcher LRSV 128 mm, M63/94, intended for neutralizing of enemy manpower, weaponry and lightly armoured targets.

8.23 kg

EFFECTIVE (POINT BLANK) RANGE: 12.700 m

PROPELLANT CHARGE OF HAND ROCKETLAUNCHER 120 mm. M91 "POS-BD"



APPLICATION: The hand rocket launcher is an individual infantry means for anti-armour battle at close distances, penetration of 700 mm of armour steel.

MASS: 0.71 kg **EFFECTIVE (POINT BLANK) RANGE:**

PROPELLANT CHARGES FOR HEAT PROJECTILES "PG-7V", "PG-7VM" AND "PG-9V"



APPLICATION: The hand grenade launcher is an individual infantry weapons for anti-armour battle at close distances, penetration of 330 mm to 500 mm of armour steel.

0.14, 0.22, 0.47 kg

EFFECTIVE (POINT BLANK) RANGE: 900 m, 1.300 m

PROPELLANT CHARGE FOR ANTI-HAILROCKETS



APPLICATION: For timely and accurate introduction of reagent into hail-bearing clouds by which conditions are created for prevention of free formation of hail grains, where artificial crystallization cores are formed and instead of large hail grains crystals of small dimensions are created.

1.70 (1.95) kg

EFFECTIVE (POINT BLANK) RANGE: 6.000 m and 8.000 m

PROPELLANT CHARGE FOR 57 mm AIRCRAFT ROCKETS (S-5M AND S-5K)



APPLICATION: The hand rocket launcher is an individual infantry means for anti-armour battle at close distances, penetration of 300 mm of armour steel.

0.130 kg

FFFFCTIVE (POINT BLANK) RANGE-250 m

Sinterical Powders

SPHERICAL POWDERS

Spherical powders has two energy components: nitrocellulose and nitroglycerine. It is used as a commercial powder (in hunting and hunting am-munition) for small arms and for aircraft and anti-aircraft ammunition. "Milan Blagojevic – Namenska" A.D. has the most modern process technology of spherical powder production. It is based on a continuous procedure which has significant advantage to a batch one.

	POWDER TYPE	POWDER PURPOSE
	SB 501	Chataball O Hambina
	SB 502	Shotshell & Hunting Ammunition
A 8 5 - 14 Lo	SB 503	Cal. 12/70
A. P. C. S.	SB 504	Cal. 12/76
a dille la la	SB 505	50 g Magnum
4 4 6	SB 506	oo y maynulli

	POWDER TYPE	POWDER PURPOSE
_114	SB 416	BLANK POWDERS 5.56 x 45 mm BLANK 7.62 x 51 mm BLANK 7.62 x 39 mm BLANK
5/1	SB 420	9 mm PA BLANK 9 x 17 mm killer Cartridges and Industrial purposes

	POWDER TYPE	POWDER PURPOSE
III	SB 510	7 3115211 7 311 332
	SB 511	5.56 x 45 mm

	POWDER TYPE	POWDER PURPOSE
i i i i i	SB 520	7.62 x 51 mm NATO

ADVANTAGES

- Superior chemical stability
 - Uniformity of loading
- Decreased powder charge
- Increased projectile velocity
 - More uniform burning
- Improved barrel operation life
- Lower flame temperature

ADVANTAGES OF THE CONTINUOUS PROCESS

SAFETY:

Process is remote controlled and the biggest part of processing is performed under water.

FLEXIBILITY:

Powder production meets different ballistic requirements and more uniform distribution of grain size is achieved.

LOW COSTS:

Smaller investment funds and lower production costs.

	POWDER TYPE	POWDER PURPOSE
	SB 440	22 Hornet, 223 Remington, 243 Winchester, 2' Winchester, 7 mm Remington Magnum, .308 Winchester, 30-06 Springfield, 300 Winchester
	SB 515	
	SB 530	
	SB 630	Magnum, 7.62 x 39 mm, 338 Lapua Magnum
9 6 6 1 6 4		

POWDER PURPOSE

12.7 mm BROWNING

	POWDER TYPE
I IIII	SB 710
- Auto	

	POWDER TYPE	POWDER PURPOSE
The state of the s	SB 508	Powder for grenades
3		



POWDER TYPE	POWDER PURPOSE
SB 720	10 × 102 mm NATO VULCAN

	POWDER TYPE	POWDER PURPOSE
10	SB 620	9 mm

POWDER CHARGES

CONVENTIONAL IN CLOTH BAG FOR SYSTEMS FROM 105 mm TO 155 mm













MONO-BLOCK POWDER CHARGES FOR 155 mm HOWITZER "NORA B52"



TECHNICAL DATA:

- Projectile M107
- V0 ~680 m/s; Pm ~1700 bar;
- Range 18.400 m



BI-MODULAR POWDER CHARGES



FOR 155 mm HOWITZER SYSTEMS

MC ZONE 10 FOR 155 mm (POWDER NCD - 19)



TECHNICAL DATA:

- Projectile ERFB-BB
- V0 ~920 m/s; Pm ~ 3.250 bar;
- Range 41.100 m

COMBUSTIBLE COMPONENTS



CHEMICAL COMPOSITION:

- Nitrocellulose
- Trinitrotoluene

