DARCOM PAMPHLET AMC-P 700-3-2

LOGISTICS

COMPLETE ROUND CHARTS

AMMUNITION

THROUGH 30 MILLIMETERS

US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND MAY 1984

DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND
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31 May 1984

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1. Purpose. This pamphlet provides a source of information for personnel whose official duties involve the use of data concerning ammunition through 30 millimeter. The information in the charts is constantly subject to change and therefore should be considered as a guide or as reference material. It is not to be construed as directive in nature, or as an authority for official action

2. Scope. This pamphlet is the second of a series of complete round charts on conventional ammunition. It contains basic source data for the items of ammunition through 30 millimeter currently in the supply system, and covers the types of classification described in AR 71-6.

*This pamphlet supersedes DARCOM-P 700-3-2, 19 October 1981

3. Numerical values. Numerical values, such as weights,dimensions, etc., are nominal values, except when specified as maximum or minimum. Actual items may vary slightly from these values. Allowable limits can be obtained from the drawings indicated in the data sheets.

4. Abbreviations.

AL-ALLOY	Aluminum Alloy
AMCTCM	Army Materiel Command Technical Committee Minutes
AMMO	Ammunition
AP	Armor piercing
API	Armor piercing incendiary
APIT	Armor piercing incendiary tracer
APT	Armor piercing tracer
APPROX	Approximate
ARTY	Artillery
ASSY	Assembly
AVG	Average
CON	Contingency
CA	Copper Alloy
CAL	Caliber
CF	Center fire
COML	Commercial
CTG	Cartridge
DWG	Drawing
DES	Designation
ED	Engineering development
ELEC	Electric
FA-PD	Frankford Arsenal Purchase Description
FPS	Feet per second
FRG	Federal Republic Germany
FT	Feet
G (g)	Grams
GMCS	Gilding metal clad steel
GRS	Grains
HEI	High explosive incendiary
HEIT	High explosive, incendiary, tracer
HPT	High pressure test
IDENT	Identification
INCND	Incendiary
LC	Lake City
LCA-PD	Lake City Arsenal Purchase Description
LCSK	Lake City sketch
LP	Limited procurement

M	Meters
MATL	Material
MAX	Maximum
MBR	Meet ballistic requirements
MCH	Machine
MIL	Military
MM	Millimeter
M/S	Meters per second
MIN	Minimum
NA	Not available
NM	National match
NO	Number
OBS	Obsolete
OTCM	Ordnance Technical Committee Minutes
O Z	Ounce
PBSB	Lead antimony
PD	Point detonating
PERC	Percussion
PRESS	Pressure
PROJ	Projectile
PSI	Pound s per square inch
RDS	Rounds
RF	Rim fire
SEC	Seconds
SD	Self destruct
SPEC	Specification
STD	Standard
TL	Technische lieferbedingungen (Technical Specification FRG)
TP	Target practice
TPT	Target practice, tracer
USAF	United States Air Force
USN	United States Navy
VEL	Velocity
W/	With
WPN	Weapon
WT	Weight
XM	Experimental
YDS	Yards

5. Errors, Omissions, and Changes. Errors, omissions, and recommended changes to this pamphlet will be reported on DA Form 2028 (Recommended Changes to DA Publications). Completed forms will be forwarded to the Commanding Officer, U. S. Army Armament Materiel Readiness Command, ATTN: DRSAR-DSM-C (D) Dover, New Jersey 07801.

The proponent of this pamphlet is the US Army Materiel Development and Readiness Command. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to Commander, ARRCOM (DRSARDSMC(D)), Dover, New Jersey 07801.

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CHART 1. SHOTGUN AMMO: .410, 10 & 12 GAGE

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DRAWING NO.	SPEC. NO.	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)	BULLET		
								DRAWING NO.	TYPE	WEIGHT (GRAINS)
1	OBS	11756003	M35	B7553403	MIL-C-46935	Caliber .22/.410 Gage Survival Rifle Shotgun, M6 (T39) 3" Chamber	430.0 Approx	—	—	—
2	STD	36524	Coml	C10524632	MIL-C-46935	Arty Wpns (in Lieu of Blank Ammo)	290.0	—	—	—
3	STD	36841	M19	B7640981	MIL-C-46935	Shotgun (2-3/4" Chamber)	9.30	—	—	—
4	LP	38036	Coml	C10522423	MIL-C-46935	Shotgun (2-3/4" Chamber)	0.736 Approx	—	—	—
5	STD	36841	Coml	B7553929	MIL-C-46935	Shotgun (2-3/4" Chamber)	791.0 Approx	—	—	—
6	Terminated	08752013	XM257	D10542446	MIL-C-46935	Shotgun 20" Full Choke Barrel	748.0 Approx	—	—	—
7	—	—	Coml	C11740792	MIL-C-46935	Shotgun (2-3/4" Chamber)	—	—	—	—
8	—	—	Coml	C11740791	MIL-C-46935	Shotgun (2-3/4" Chamber)	—	—	—	—
9	OBS	11756003	M274	C10542495	MIL-C-46935	Shotgun, Riot Type 20" Barrel, Cylinder Bore	740.0	—	—	—

CHART 1. SHOTGUN AMMO: .410, 10 & 12 GAGE

CHART 1. SHOTGUN AMMO: .410, 10 & 12 GAGE

JACKET				SLUG			SHOT/BUCKSHOT	
DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	CUP DRAWING NO.	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DESIGNATION	WEIGHT (GRAINS)
.410 SHOTGUN								
–	–	–	–	–	–	–	3/4 oz Load of No. 6 Copper Coated Shot or Equal	–
10 GAGE								
–	–	–	–	–	–	–	–	–
12 GAGE								
–	–	–	–	–	–	–	Load of (9) No. 00 Buckshot Coml	516.0 Approx
–	–	–	–	–	–	–	Load of (9) No. 00 Buckshot Coml	–
–	–	–	–	–	–	–	Load of (9) No. 00 Buckshot Coml	516.0 Approx
–	–	–	–	–	–	–	27 No. 4 Pellets- Hard Lead Antimony Alloy	–
–	–	–	–	–	–	–	Load 1-1/8 oz No. 7-1/2 Chilled Shot	–
–	–	–	–	–	–	–	Load 1-1/8 oz No. 9 Chilled Shot	–
–	–	–	–	–	–	–	Approx 152 No. 4 Hard Chilled Shot	–

CHART 1. SHOTGUN AMMO: .410, 10 & 12 GAGE

CARTRIDGE CASE				PRIMER		PROPELLANT	
DRAWING NO.	MATERIAL	CUP DRAWING	WEIGHT (GRAINS)	DRAWING NO.	DESIGNATION	DESIGNATION	WEIGHT (GRAINS)
–	Al Alloy	–	–	–	Non Corrosive Coml	Smokeless Powder	–
–	–	–	–	–	Non Corrosive Coml	Black Powder	–
B7640982	Brass	–	–	D7640983	Non Corrosive Coml	Smokeless Powder	–
–	Plastic	–	–	–	Non Corrosive Coml	Smokeless Powder	–
–	Paper	–	–	–	Non Corrosive Coml	Smokeless Powder	–
–	Plastic	–	–	–	Non Corrosive Coml	Smokeless Powder	–
–	Plastic	–	–	–	Non Corrosive Coml	Smokeless Powder	–
–	Plastic	–	–	–	Non Corrosive Coml	Smokeless Powder	–
–	Paper or Plastic	–	–	–	Non Corrosive Coml	Smokeless Powder	–

CHART 1. SHOTGUN AMMO: .410, 10 & 12 GAGE

DARCOM-P 700-3-2

PERFORMANCE		
PRESSURE	VELOCITY	PACKING
13,000 Max Avg	960 ± 20 @ 3 Ft	Coml Pack or as Specified
—	—	Coml Pack or as Specified
11,000 Max Avg	1125 ± 20 @ 3 Ft	F10521660
11,000 Max Avg	1325 ± 50 @ 3 Ft	Coml Pack or F10535779 as Specified
11,000 Max Avg	1325 ± 50 @ 3 Ft	Coml Pack or F10535779 as Specified
11,000 Max Avg	1335 ± 40 @ 3 Ft	Coml Pack or F10535779 as Specified
11,000 Max Avg	1200 ± 45 @ 3 Ft	Coml Pack or F10535779 as Specified
11,000 Max Avg	1145 ± 45 @ 3 Ft	Coml Pack or F10535779 as Specified
11,000 Max Avg	1255 ± 45 @ 3 Ft	Coml Practice

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CHART 2. CALIBER .22, .32 & .38 AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DWG. NO.	SPEC. NO.	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)
1	OBS	11756003	M24 RF 1/	B7640995	MIL-C-46935	22 Caliber (other than Survival Weapon) and Subcaliber Rifle M2A1	53.0 Approx
2	OBS	11756003	M65 CF 2/	C7553664	MIL-C-45200	Survival Weapons (Hornet)	103.0 Approx
3	STD	36841	Coml 1/	C7553931	MIL-C-46935	.22 Caliber (other than Survival Weapon) and Subcaliber Rifle M2A1	52.0 Approx
4	—	—	Coml 1/	C10523992	MIL-C-46935	.22 Caliber (other than Survival Weapon) and Subcaliber Rifle M2A1	—
5	—	—	Short Blank Coml 1/	C10542442	MIL-C-46935	—	—
6	LP	DA Message	X M861	9343015	TL-149	M16 and M16A1 3/	48.0
7	—	—	Coml	C10524631	MIL-C-46935	Test Weapons	115 Grains
8	—	—	Coml Smith & Wesson	C10524005	MIL-C-46935	Test Weapons	—
9	—	—	Coml	B10521459	MIL-C-46935	Revolver, Special, Smith & Wesson K-38 Ruger SS84-L	220.0 Approx
10	OBS	08836015	M41	C7553580	MIL-C-46409	Revolver, Special 2" Barrel or 4" Barrel Ruger SS84-L	203.0 Approx

1/ Rim Fire Cartridge.

2/ Center Fire Cartride.

3/ Fired with M261 Conversion Kit.

4/ Metal Jacket in accordance with commercial practice.

CHART 2. CALIBER .22, .32 & .38 AMMUNITION

BULLET			JACKET			
DWG. NO.	TYPE	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	WEIGHT (GRAINS)	CUP DWG. NO.
				CALIBER .22		
B7640996	Ball, Long Rifle	40.5 -1.0	A7585114	Gilding Metal	6.5 -0.5	—
B7553666	Ball, Hornet	35.0 -2.0	—	Copper Alloy	12.5 -1.0	—
—	Long Rifle	40.0 Approx	—	—	—	—
—	Ball, Short	29.0 Approx	—	—	—	—
—	—	—	—	—	—	—
—	Tracer Long Rifle	35.0 Approx	—	—	—	—
				CALIBER .32		
—	Ball	71-74 Approx	—	4/	—	—
				CALIBER .38		
—	Ball	145.0 to 196.0	—	—	—	—
—	Wad Cutter	148.0 Approx	—	—	—	—
C7553602	Ball, Special	132.0 -3.5	C7553602	Copper Alloy	23.0 -2.0	B7553951

CHART 2. CALIBER .22, .32 & .38 AMMUNITION

SLUG			CARTRIDGE CASE				PRIMER	
DWG. NO.	MATERIAL	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	CUP DRAWING	WEIGHT (GRAINS)	DWG. NO.	DESIGNATION
A7585115	PBSB	34.0 -0.5	A7585113	Brass	—	10.0 Approx	—	Non-Corrosive Coml
—	PBSB	22.5 -1.0	C7553665	Brass	—	53.0 Approx	B8593624	Non-Corrosive Coml
—	PBSB	—	—	Brass	—	—	—	Coml
—	PBSB	—	—	Brass	—	—	—	Coml
—	—	—	—	Brass	—	—	—	Coml
—	—	—	—	Nickle Rlated Copper/Zinc	—	—	—	Coml
—	PBSB	—	—	Brass	—	—	—	Coml
—	PBSB	—	—	Brass	—	—	—	Coml
—	PBSB	—	—	Brass	—	—	—	Coml
C7553602	PBSB	109.0 -1.5	C7553601	Brass	B7553950	77.0 -5.0	B8596412	Coml

CHART 2. CALIBER .22, .32 & .38 AMMUNITION

PROPELLANT		PERFORMANCE		PACKING
DESIGNATION	WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
Smokeless Powder	2.5 Approx	24,000 Max Avg	1185 ±40 @ 15 Ft	Coml Pack or F7553769
Smokeless Powder	12.6 Approx	43,000 Max Avg	2750 ±50 @ 15 Ft	Coml Pack or As Specified
Smokeless Powder	—	Max Avg Press of 10 Rds 24,000	1125 ±40 Std Vel, 1265 ±40 High Vel	Coml Pack or As Specified
Coml	—	Mean Press of 10 Rds 17,000	1035 ±40 Std Vel, 1110 ±40 High Vel	Coml Practices
Coml	—	—	—	Coml Practices
Smokeless Powder	2.5 Approx	—	990.75	Coml Pack
Smokeless Powder	—	15,000 Max Avg	900.0 ±45 @ 15 Ft	Best Coml
Smokeless Powder	—	13,000 Max Avg	725.0 ±45 @ 15 Ft	Best Coml
Smokeless Powder	—	16,000 Max Avg	800.0 ±45 @ 15 Ft	F10522441
SR 7325 or HPC I	4.8 Approx 4.0 Approx	16,000 Max Avg	950.0 ±25 @ 15Ft	D7553763

CHART 3. CALIBER .30 AMMUNITION

LINE NO.	TYPE CLASSI-FICA-TION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DWG. NO.	SPEC. NO.	IDENTI-FICATION	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)
1	OBS	11756003	M1	C6006764	MIL-C-60829	Red Tip	Mch Gun M37, M1919A4, M1919A6 & Rifle, M1	399.0 -27.0
2	STD	37119	M1 (HPT)	C6016308	MIL-C-60161	Stannic Stained Case	–	432.0 -24.0
3	OBS	11756003	M2	C6137544	MIL-C-1313	Plain Tip	Mch Gun M37, M1919A4, M1919A6 & Rifle, M1	416.0 -23.0
			M2 Steel Case	C7553431				396.0 -23.0
4	–	–	M2 (Overhead Fire Appl)	C10542449	MIL-C-60832	Plain Tip	Mch Gun M37, M1919A4 & M1919A6	408.0 -23.0
5	OBS	11756003	M2 (AP)	C6138194	MIL-C-1217	Black Tip	Mch Gun M37, M1919A4, M1919A6 & Rifle, M1	424.0 -28.0
6	OBS	11756003	M3 (Grenade Ctg)	C6173949	MIL-C-746	Case Mouth with Rosette Crimp	Rifle, M1	248.0 -20.0
7	OBS	11756003	M14 (API)	C7638431	MIL-C-1322	Silver Tip	Mch Gun M37, M1919A4, M1919A6 & Rifle, M1	407.0 -30.0
8	OBS	11756003	M22	B7640951	MIL-C-60865	Green & White Tip	Mch Gun M37, M1919A4 & Rifle, M1	320.0 -24.0
9	OBS	11756003	M25	C7640667	MIL-C-1317	Orange Tip	Mch Gun M1917A1, M37, M1919A4, M1919A6 & Rifle, M1	401.0 -25.0
			M25 Steel Case	C7553949				381.0 -25.0
10	STD	37119	M40 (Dummy)	B7553591	MIL-C-3498	Corrugated Case - No Primer	All Cal. .30 Weapons	268.0 -21.5
11	STD	37119	M72 (Match)	C8595432	MIL-C-46680	"Match" or "NM" Stamped on Head of Case	Rifle, M1 National Match	425.0 Approx
12	OBS	11756003	M1909 (Blank)	C6006152	MIL-C-1312	No Bullet, Mouth Sealed with Red Disk	Mch Gun M1919A4, M1919A6 & Rifle, M1	218.0 -20.0

CHART 3. CALIBER .30 AMMUNITION

BULLET			JACKET				CORE OR SLUG		
DWG. NO.	TYPE	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	WEIGHT (GRAINS)	CUP DWG. NO.	DWG. NO.	MATERIAL	WEIGHT (GRAINS)
C6016092	Tracer	144.0 -4.0	B6134682	GMCS	74.0 -2.0	B10542486	—	—	—
B6016309	Ball	173.0 -3.0	B6139101	Copper Alloy	54.5 -1.5	B7553862	B6010988	PBSB	115.5 -1.5
B8595559 or B6171958	Ball	152.0 -3.0	B8595558 or B6171959	Copper Alloy or GMCS	52.0 -1.5 or 34.0 -1.5	B7553862	B8595557	PBSB	100.0 -1.0 or 118.0 -1.5
						B7553579 1 Dwg. or B7585163 2 Dwg.	B6171960		
B8595559	Ball	152.0 -3.0	B8595558	Copper Alloy	52.0 -1.5	B7553862	B8595557	PBSB	100.0 -1.0
C6138195	AP	166.0 -7.5	B6138196	Copper Alloy	65.5 -1.5	B5203373	B5049044	Steel	81.0 -2.5
Wad A5196636	—	—	—	—	—	—	—	—	—
B7638432	API	151.0 -6.0	B7638433	Copper Alloy	63.0 -1.5	B5203373	B5049044	Steel	81.0 -2.5
B7640952	Frangible	108.5 -3.0	—	—	—	—	—	—	—
B7640668	Tracer	145.5 -4.0	B7643672	GMCS	68.0 -1.5	B7553946	—	—	—
B7553593	Ball	68.0 -1.5	B7643672	GMCS	68.0 -1.5	B7553946	—	—	—
B8595434	Ball	175.5 -3.0	C8595435	Copper Alloy	60.0 -1.5	B8595436	B8595437	PBSB	115.5 -1.5
Wad A5046496	—	—	—	—	—	—	—	—	—

CHART 3. CALIBER .30 AMMUNITION

POINT FILLER			BASE FILLER CUP CLOSURE CLOSURE DISC			CARTRIDGE CASE			
DWG. NO.	MATERIAL	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	CUP DWG. NO.	WEIGHT (GRAINS)
A5041801	PBSB	52.5 -1.0	A7585159	Copper Alloy	1.0 Approx	C6000045	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
–	–	–	–	–	–	C6139240	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
–	–	–	–	–	–	C6000045	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
						C8594091	Steel	A5203574	180.0 -20.0
–	–	–	–	–	–	C6000045	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
A5001078	Lead	12.0 -2.0	A5049043	Copper Alloy	7.7 -0.5	C6000045	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
–	–	–	–	–	–	B6173950	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
–	–	–	A7585143	PBSB	4.0 Approx	C6000045	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
–	–	–	–	–	–	C6000045	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
B7585156	PBSB	68.5 -1.5	A7585159 & A8596174	Copper Alloy & Vinylite	1.0 Approx 0.1 Approx	C6000045	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
						C8594091	Steel	A5203574	180.0 -20.0
–	–	–	–	–	–	B7553592	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
–	–	–	–	–	–	C8595433	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0
–	–	–	–	–	–	C6006156	Brass	B7553775 (2 Dwg) B8594526 (3 Dwg) or B5203372 (4 Dwg)	200.0 -20.0

CHART 3. CALIBER .30 AMMUNITION

PRIMER		PROPELLANT		PERFORMANCE		PACKING
DWG. NO.	DESIG-NATION	DESIG-NATION	APPROX WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
C10522621	34	IMR 4895	50.0	52,000 Max Avg	2665 ±30 @ 78 Ft	D7553807 D7553698 D7553510 D7553811
C10522621	34	IMR 4198	52.0	67,500 Avg	–	F105339
C10522621	34	IMR 4895, WC 852 or CMR 100	50.0 53.0 45.0	50,000 Max Avg	2740 ±30 @ 78 Ft	D7553510 D7553698 D7553807 D7553811 F10533838
C10522621	34	IMR 4895, WC 852 or CMR 100	50.0 53.0 45.0	50,000 Max Avg	2740 ±30 @ 78 Ft	F10542451
C10522621	34	WC 852 or IMR 4895	55.0 55.0	54,000 Max Avg	2715 ±30 @ 78 Ft	D7553510 D7553807 D7553811 F10533838
C10522621	34	IMR 4895	45.0	–	180 ± 15 @ 5.5 Ft	D7553659
C10522621	34	WC 852 or IMR 4895	50.0 50.0	54,000 Max Avg	2780 ±30 @ 78 Ft	D7553698 D7553807 D7553811 F10533838
C10522621	34	SR 4759	11.0	–	1320 ±30 @ 53 Ft	D7553510 F7553807
C10522621	34	WC 852 or IMR 4895	50.0 50.0	50,000 Max Avg	2665 ±30 @ 78 Ft	F7553807 F10533838 D7553510 D7553698
–	–	–	–	–	–	D755380
C10522621	34	IMR 4895	50.0	50,000 Max Avg	2640 ±30 @ 78 Ft	F10524016 F8594729 F8593309
C10522621	34	WC Blank or SR 4990	12.0 12.0	–	–	D7553502 D7553659 D7553734 D7553891 D8595241

CHART 4. CALIBER .30 CARBINE AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DRAWING NO.	SPEC NO.	IDENTIFICATION	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)
1	OBS	11756003	M1 M1 Steel Case	B6200954 C7553430	MIL-C-3369	Plain Tip	Carbine M1 & M2	196.0 -12.0 193.0 -12.0
2	OBS	11756003	M6 (Grenade Ctg)	B6181079	MIL-C-60839	Case Mouth Closed With Rosette Crimp	Carbine M1 & M2	103.0 Approx
3	OBS	11756003	M13 (Dummy) M13 Steel Case (Dummy)	B6177513 B7640521	MIL-C-3498	Drilled Case	Carbine M1 & M2	177.0 Approx 168.0 Approx
4	STD	36841	M18 (HPT)	B6176267	MIL-C-743	Stannic Stained Case	Carbine M1 & M2	243.0 Approx
5	OBS	11756003	M27	B7640930	MIL-C-13449	Orange Tip	Carbine M1 & M2	191.0 -13.0

CHART 4. CALIBER .30 CARBINE AMMUNITION

BULLET			JACKET			
DRAWING NO.	TYPE	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	CUP DRAWING NO.
C6200955	Ball	108.0 - 3.0	C11738713 Or C10542255	Decarburized Rimmed Steel, or GMCS	25.0 -1.5	B10542383
Wad A5317402	—	—	—	—	—	—
B6200955	Ball	108.0 - 3.0	C11738713 Or C10542255	Decarburized Rimmed Steel, or GMCS	25.0 -1.5	B10542383
B6270755	Ball	152.0 - 3.0	B6171959	GMCS	34.0 -1.5	B7585163 (2 Dwg) Or B7553579 (1 Dwg)
C7640940	Tracer	103.0 - 4.0	B7645349	GMCS	40.5 -2.0	A7585088

CHART 4. CALIBER .30 CARBINE AMMUNITION

SLUG			CARTRIDGE CASE				PRIMER
DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	CUP DRAWING NO.	WEIGHT (GRAINS)	DRAWING NO.
B7645346	PBSB	83.0 -1.5	B6200957	Brass	A5203376	71.0 -6.0	C11751131 Or B6200959
			C10542381	Steel	B10542382	68.0 -8.0	
—	—	—	B6181080	Brass	A5321462	77.0 Approx	B6200959
B7645346	PBSB	83.0 -1.5	B6177514	Brass	A5203376	71.0 -6.0	—
			B7640522	Steel	B10542382	68.0 -8.0	
B6171960	PBSB	118.0 -1.5	B6200957	Brass	A5203376	71.0 -6.0	B6200959
B7645350	PBSB	55.0 -1.0	B6200957	Brass	A5203376	71.0 -6.0	C11751131 Or B6200959

CHART 4. CALIBER .30 CARBINE AMMUNITION

PROPELLANT		PERFORMANCE		
DESIGNATION	APPROX WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	PACKING
WC 820 Or HPC 5	13.0 13.0	40,000 Max Avg	1900 ± 30 @ 53 Ft	D7553724 D7553902 F11740772
IMR 4809 & Black Powder	21.0	—	145 ± 15 @ 5 Ft	—
—	—	—	—	D7553724 D7553902 D7553335
HPC 5	14.0	47,500 ±2,500	—	D7553902
WC 820 Or HPC 5	13.0 13.0	40,000 Max Avg	1800 ± 30	D7553724 D7553902

CHART 5. CALIBER .45 AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DRAWING NO.	SPEC. NO.	IDENTIFICATION	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)
1	STD	36841	M1 (HPT)	C6000502	MIL-C-60163	Stannic Stained Case	Used To Proof Test Barrels & Weapons (Not A Service Ctg)	332.0 -16.0
2	STD	505	M9 (Blank) M9 Steel Case (Blank)	C10523805 C7635291	MIL-C-46937	Case Mouth Tapered, No Bullet	Pistol, Automatic, M1911A1	104.0 Approx 91.0 Approx
3	STD CON	37107 11756003	M26 M26 Steel Case	C10534359 C7636733	MIL-C-1314	Red Tip	Submachine Gun, M3A1 & Pistol, Automatic, M1911A1	331.0 -17.0 326.0 -17.0
4	STD	33119	M32 (Line Throwing)	B7553068	MIL-C-12779	No Bullet, Rimmed Long Case	Line Throwing Gun, Cal. .45/70	192.0
5	STD	36841	M1911 M1911 Steel Case	C6000503 C11738402	MIL-C-1311	Plain Tip	Submachine Gun, M3A1 & Pistol, Automatic, M1911A1	331.0 -17.0 321.0 -20.0
6	STD	36841	M1911 (Match Grade)	C8596136	MIL-C-46482	"Match" Or "NM" Stamped On Head Of Case	Pistol, Automatic, M1911A1, National Match	334.0 -17.0
7	STD	36841	M1921 (Dummy) M1921 Steel Case (Dummy)	B6006253 C11738405	MIL-C-3498	Hole In Case	Submachine Gun, M3A1 & Pistol, Automatic, M1911A1	305.0 Approx 305.0 Approx
8	OBS	08836015	Wad Cutter Match	C10521458	MIL-C-46935	Coml Practice	Pistol, Automatic, M1911A1, National Match	330.0

CHART 5. CALIBER .45 AMMUNITION

BULLET			JACKET				SLUG		
DRAWING NO.	TYPE	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	CUP DRAWING NO.	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)
C11731786	Ball	231.0 -6.0	C11731785	GMCS	34.0 Approx	B11731784	B5001165	PBSB	197.0 -3.0
WAD A7576135	–	–	–	–	–	–	–	–	–
B7637395	Tracer	208.0 Approx	C11731785	GMCS or Copper Plated Steel	34.0 Approx	B11731784 B11731783	B7645343	PBSB	171.0 Approx
–	–	–	–	–	–	–	–	–	–
C11731786	Ball	231.0 -6.0	C11731785	GMCS or Copper Plated Steel	34.0 Approx	B11731784 Or B11731783	B5001165	PBSB	197.0 -3.0
B6136799	Ball	234.0 -6.0	B6136800	Copper Alloy	37.0 -3.0	A5203379	B5001165	PBSB	197.0 -3.0
C11731786	Ball	231.0 -6.0	C11731785	Copper Alloy	34.0 Approx	B11731784	B5001165	PBSB	197.0 -3.0
–	Ball	185.0 Approx	–	–	–	–	–	PBSB	–

CHART 5. CALIBER .45 AMMUNITION

BASE CLOSURE SEAL			CARTRIDGE CASE			
DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	CUP DRAWING NO.	WEIGHT (GRAINS)
–	–	–	C6000501	Brass	A5203378	118.0 -7.0
–	–	–	C10523805	Brass	A5203378	95.0 -10.0
			C7639487	Steel	B5204715	87.0 -10.0
A7585159	Copper Alloy	–	C6000501	Brass	A5203378	87.0 -10.0
			C11738401	Steel	B5204715	82.0 -10.0
–	–	–	C10524075	Brass	–	–
–	–	–	C6000501	Brass	A5203378	118.0 -7.0
			C11738401	Steel	B5204715	101.0 -6.0
–	–	–	C8596403	Brass	A5203378	118.0 -7.0
–	–	–	B6006257	Brass	A5203378	87.0 -10.0
			C11738404	Steel	B5204715	82.0 -10.0
–	–	–	–	Brass	–	–

CHART 5. CALIBER .45 AMMUNITION

PRIMER		PROPELLANT		PERFORMANCE		PACKING
DRAWING NO.	DESIGNATION	DESIGNATION	APPROX WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
B7645336	Coml	SR7970 Or HPC 18	7.0 7.0	22,000 Max Avg	–	F10534191
B7645336	Coml	SR4990	10.0	–	–	D7553728
B7645336	Coml	SR7970 Or HPC 18	6.0 6.0	19,000 Max Avg	885 ± 25 @ 25.5 Ft	D7553728
–	Coml	Smokeless Coml	–	20,000 Max Avg	–	F10542548
B7645336	Coml	SR7970 Or HPC 18	5.0 5.0	19,000 Max Avg	885 ± 25 @ 25.5 Ft	D7553728
B7645336	Coml	SR7970 Or HPC 18	5.0 5.0	19,000 Max Avg	888 ± 25 @ 25.5 Ft	F8596134
–	–	–	–	–	–	D7553728
–	Coml	Smokeless Powder	–	18,000 Max Avg	765 ± 45 @ 15 Ft	Coml

CHART 6. CALIBER .50 AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DWG. NO.	SPEC. NO.	IDENTIFICATION	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)
1	OBS	11756003	M1	D5544843	MIL-C-60665	Red Tip	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) & Mch Gun, M85	1785.0 -68.0 or 1752.0 -68.0
2	STD	36841	M1 (HPT)	C5544097	MIL-C-60162	Stannic Stained Case	For Proof Testing Except Rifle, Spotting M8C	2082.0 -62.0
3	OBS	11756003	M1 (Incnd)	D5579812	MIL-C-1316	Blue Tip	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) & Mch Gun M85	1744.0 -81.0
4	C STD	36841 02806015	M1 (Blank) M1A1(Blank)	C7673517 9326760	MIL-C-816 MIL-C-48623	No Bullet –	Mch Gun, M2 (Flexible) M2 & M85 1/	917.0 Approx. 955
5	OBS	11756003	M2 (AP)	D5569930	MIL-C-60666	Black Tip	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) & Mch Gun M85	1812.0 -73.0
6	STD	36841	M2 (Dummy)	C5556579	MIL-C-3498	3 Holes in Case	All Cal. .50 Weapons, Except Rifle, Spotting M8C for Training	1215.0 -60.0 & 1248.0 -60.0
7	STD	36841	M2	D5577960	MIL-C-1262	Plain Tip	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) & Mch Gun M85	1813.0 -73.0
8	STD	OTCM 36841	M8 (API) M8 (API) Steel Case	C7670238 C7553432	MIL-C-3066	Silver Tip	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) & Mch Gun M85	1764.5 -78.5 1714.5 -78.5
9	OBS	11756003	M10	C7670296	–	Orange Tip	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) & Mch Gun M85	1752.0 -68.0
10	CON	11756003	M17	D7672165	MIL-C-1318	Brown Tip	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) & Mch Gun M85	1732.0 -68.0
11	STD	OTCM 36841	M20 (APIT) M20 Steel Case	C7672003 C7553433	MIL-C-3066	Red Tip Silver Annulus	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) or Mch Gun M85	1718.0 -76.5 1668.0 -76.5

CHART 6. CALIBER .50 AMMUNITION

BULLET			JACKET				CORE OR SLUG		
DWG. NO.	TYPE	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	WEIGHT (GRAINS)	CUP DWG. NO.	DWG. NO.	MATERIAL	WEIGHT (GRAINS)
C6129831 or C10542389	Tracer	677.0 -18.0 or 644.0 -18.0	C6129832 or C10542388	Copper Alloy or GMCS	398.0 -10.0 or 365.0 -10.0	B5203383 or B10542387	B6129833	PBSB	207.0 -1.0
C6016316	Ball	999.0 -11.0	C6016317	Copper Alloy	263.0 -5.0	B7585140	B6016318 (Front) & B6016319 (Rear)	PBSB PBSB	325.0 -3.0 411.0 -3.0
C6174991	Incendiary	633.0 -26.0	B6174992	Copper Alloy	235.0 -5.0	B7585140	A5185029	PBSB	137.0 -4.0
RAD A7585072	– –	– –	– –	– –	– –	– –	– –	– –	– –
C6137655	AP	708.0 -22.0	B6137656	Copper Alloy	253.0 -5.0	B7585140	B6137657	Steel	400.0 -15.0
B6136684	Ball	–	C10542388 or B6129832	GMCS or Copper Alloy	365.0 -10.0 or 396.0 -10.0	D10542387 or B5203383	–	–	–
C6171990	Ball	709.5 -22.0	B6137656	Copper Alloy	253.0 - 5.0	B7585140	B6171991	Steel	400.0 -15.0
C7636175	API	662.5 -27.0	B6174992	Copper Alloy	235.0 -5.0	B7585140	B6137657	Steel	400.0 -15.0
B7636275	Tracer	643.0 -17.0	C10542388	GMCS	365.0 -10.0	B10542387	B6129833	PBSB	207.0 -1.0
B7638551	Tracer	643.0 -17.0	C10542388	GMCS	365.0 -10.0	B10542387	B6129833	PBSB	207.0 -1.0
C7638265	APIT	619.0 -25.0	B6174992	Copper Alloy	235.0 -5.0	A7585140	B7638266	Steel	355.0 -15.0

CHART 6. CALIBER .50 AMMUNITION

POINT FILLER			BASE FILLER DISC CLOSURE			CARTRIDGE CASE			
DWG. NO.	MATERIAL	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	APPROX WEIGHT (GRAINS)	DWG. NO.	MATERIAL	CUP DWG. NO.	WEIGHT (GRAINS)
–	–	–	A7585151	Copper Alloy	1.5	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	–	–	–	–	–	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	–	–	–	–	–	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	–	–	–	–	–	C5556651	Brass	B5203381 or B7553774	850.0 -50.0
–	–	–	–	–	–	C5502646	Brass		
B6137658	PBSB	56.5 -2.0	–	–	–	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	–	–	–	–	–	C5556580	Brass	B5203381	850.0 -50.0
B6137658	PBSB	56.5 -2.0	–	–	–	C5502646	Brass	B5203881 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	–	–	A7577031	PBSB	11.5	C5502646	Brass	B5203881 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
						C10521652	Steel	B7553438	800.0 -50.0
–	–	–	A7585151	Copper Alloy	1.5	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	–	–	A7585151	Copper Alloy	1.5	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	–	–	A7585150	Copper Alloy	1.5	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
						C10521652	Steel	B7553488	800.0 -50.0

CHART 6. CALIBER .50 AMMUNITION

PRIMER		PROPELLANT		PERFORMANCE		PACKING
DWG. NO.	DESIG-NATION	DESIG-NATION	APPROX WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
D7645339	–	IMR 5010	240.0	52,000 Max Avg	2700 ± 40 @ 78 ft	D7553346 F8596993 D7553544
D7645339	–	WC 860	240.0	65,000 Max Avg	–	F10534277
D7645339	–	WC 860	240.0	54,000 Max Avg	2950 ± 30 @ 78 ft	D7553346
D7645339	– –	WC 150 Hi-Skor 700X	46.0 42.0	– –	– –	D7553346
D7645339	–	WC 860 or IMR 5010	235.0 235.0	53,000 Max Avg	2810 ± 30 @ 78 ft	D7553346 D7553544
–	–	–	–	–	–	D7553346 D7553544
D7645339	–	WC 860	235.0	55,000 Max Avg	2810 ± 30 @ 78 ft	D7553346 D7553544
D7645339	–	WC 860 or IMR 5010	233.0 233.0	59,000 Max Avg	2910 ± 30 @ 78 ft	D7553346 F8596993 D7553544
D7645339	–	IMR 5010	240.0	54,000 Max Avg	2860 ± 40 @ 78 ft	D7553346 F8596993 D7553544
D7645339	–	IMR 5010	225.0	54,000 Max Avg	2860 ± 40 @ 78 ft	D7553346 F8596993 D7553544
D7645339	–	IMR 5010	230.0	55,000 Max Avg	2910 ± 30	D7553346 F8596993 D7553544

CHART 6. CALIBER .50 AMMUNITION -- CONTINUED

LINE NO.	TYPE CLASSI-FICA-TION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DWG. NO.	SPEC. NO.	IDENTI-FICATION	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)
12	STD	36841	M23	D7673512	MIL-C-1316	Blue Tip Light Blue Annulus	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) or Mch Gun M85	1581.0 Approx
13	STD	36841	M33	C7553097	MIL-C-10190	Plain Tip	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) or Mch Gun M85	1762.5 -76.5
			M33 Steel Case	C7553434				1712.5 -76.5
14	STD	7378	M48A2	D10542445	MIL-C-60813	Yellow Tip Red Annulus	Rifle, Spotting, M8C	1744.0 -71.0
15	STD	7378	M48A1	D8594735	MIL-C-46396	Yellow Tip Red Annulus	Rifle, Spotting, M8C	1744.0 -71.0 CACS or Steel Flash Tube
								1714.0 -71.0 A1-Alloy Flash Tube
16	LP	28041	T49	C7673511	–	Blue Tip Silver Annulus	Mch Gun, M2 (Turret Type), Mch Gun, M2 (Flexible) or Mch Gun M85	1597.0 Approx
17	–	–	T249E2	D10534667	MIL-C-60168	Green Tip	Rifle, Spotting, M8C	1738.0 -61.0 CACS or Steel Flash Tube
								1708.0 -61.0 A1-Alloy Flash Tube
18	–	–	M251 T251 (HPT)	D10534770	MIL-C-60167	Stannic Stained Case	Rifle, Spotting, M8C	1902.0 -66.0
19	–	–	XM176 (Dummy)	D10522689	–	Black Chemical Finish	All Caliber .50 Weapons	1732.0 -82.0
20	**STD LCC-A**	**09836015**	**M858 Ball Plastic Training**	9340557	TL 153	Blue	Mch Guns M2	447.58
21	**STD LCC-A**	**09836015**	**M860 Tracer Plastic Training**	934[illegible]58	TL 153	Red Tip Bullet Base of Case Aluminum	Mch Guns M2	452.82

1/ Cartridge Cal .50 Blank M1A1 is fired with M19 Blank firing attachment for the M2 Machine Gun and the M20 Blank firing attachment for the M85 Machine Gun.

CHART 6. CALIBER .50 AMMUNITION -- CONTINUED

BULLET			JACKET				CORE OR SLUG			
DWG. NO.	TYPE	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	WEIGHT (GRAINS)	CUP DWG. NO.	DWG. NO.	MATERIAL	WEIGHT (GRAINS)	I
C7640947	Incendiary	512.0 -24.0	B6174992	Copper Alloy	235.0 -5.0	A7585140	A7585071	PBSB	102.0 -4.0	
C7553095	Ball	661.5 -25.0	B6174992	Copper Alloy	235.0 -5.0	A7585140	B6171991	Steel	400.0 -15.0	
C10542329	Spotter Tracer	[illegible]	B7553692	Copper Alloy	288.5 ±3.5	B7553773	B7553694	PBSB	520.0 ±1.0	
C7553690	Spotter Tracer	527.0 -15.0	B7553692	Copper Alloy	288.5 ±3.5	B7553773	B7553694	PBSB	320.0 ±1.0	
B7640941	API	501.0 Approx	B7640942	Copper Alloy	191.0 -5.0	A7585140	B7640943	Steel	283.0 Approx	
C10542477	Practice	517.0 -8.0	C1052478	Copper Alloy	285.0 Approx	B7553773	C10542479 (Core) & C10542480 (Slug)	Steel PBSB	187.0 Approx 305.0 Approx	
C6016316	Ball	999.0 -11.0	C6016317	Copper Alloy	263.0 -5.0	A7585140	B6016318 (Front) & B6016319 (Rear)	PBSB PBSB	325.0 -3.0 & 411.0 -3.0	
C10523312	Ball	661.5 -27.0	B6174992	Copper Alloy	235.0 -5.0	A7585140	B6171991	Steel	400.0 -15.0	
9340557	Ball Plastic	52.40 ±0.2	—	—	—	—	—	—	—	
9340558	Tracer Plastic	52.40 ± 0.2	—	—	—	—	—	—	—	

CHART 6. CALIBER .50 AMMUNITION -- CONTINUED

POINT FILLER			BASE FILLER DISC CLOSURE			CARTRIDGE CASE			
DWG. NO.	MATERIAL	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	WEIGHT (GRAINS)	DWG. NO.	MATERIAL	CUP DWG. NO.	WEIGHT (GRAINS)
–	–	–	–	–	–	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	Sodium Carbonate Monohydrate	15.0 -5.0	A7577031	PBSB	11.5 Approx	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
						C10521652	Steel	B7553488	800.0 -50.0
–	–	–	B7553696 Closure Cup	Copper Alloy	2.0 -0.5	C8594736	Brass	B8594740 (3 Dwg) or B8594739 (2 Dwg)	740.0 -50.0
–	–	–	B7553696 Closure Cup	Copper Alloy	2.0 -0.5	C8594736	Brass	B8594740 (3 Dwg) or B8594739 (2 Dwg)	740.0 -50.0
–	–	–	A7577031	PBSB	11.5 Approx	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	Sodium Carbonate Monohydrate	–	–	–	–	C8594736	Brass	B8594740 (3 Dwg) or B8594739 (2 Dwg)	740.0 -50.0
–	–	–	–	–	–	C7553691	Brass	B8594740	890.0 -40.0
–	Sodium Carbonate Monohydrate	15.0 -5.0	A7577031	Coml T-Shot or PBSB	11.5 Approx	C5502646	Brass	B5203381 (3 Dwg) or B7553774 (2 Dwg)	850.0 -50.0
–	–	–	–	–	–	9340557	Polyethylene Case Aluminum Base	–	–
–	–	–	–	–	–	9340558	Polyethylene Case Aluminum Base	–	–

CHART 6. CALIBER .50 AMMUNITION -- CONTINUED

PRIMER		PROPELLANT		PERFORMANCE		PACKING
DWG. NO.	DESIG-NATION	DESIG-NATION	WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
D7645339	–	IMR 4831	237.0 Approx	58,000 Max Avg	3400 ± 30 @ 78 ft	D7553346 D7553544
D7645339	–	WC 860 or IMR 5010	235.0 Approx 235.0 Approx	55,000 Max Avg	2910 ± 30 @ 78 ft	D7553346 F8596993 D7553344
D7645339	–	IMR 7383	110.0 Approx	38,000 Max Avg	1745 ± 20 @ 78 ft	F7553719
C8795837 or D7645339	M26	IMR 7383	110.0 Approx	38,000 Max Avg	1745 ± 20 @ 78 ft	F7553719
D7645339	–	WC 860	252.0 Approx	58,000 Max Avg	3400 ± 30 @ 78 ft	F8596993 D7553544 D7553058 D7553346
D7645339	–	IMR 7383	110.0 Approx	38,000 Max Avg	1745 ± 20 @ 78 ft	F10534780
D7645339	–	IMR 4831	142.0 Approx	55,000 Max Avg	–	F10534778
–	–	Sodium Carbonate Mono-hydrate	240.0 -5.0	–	–	F10523315
–	–	NGL	49.3 ± .05	522,000	2850 @ 78 ft	7140393 7553296 7553347
–	–	NGL	49.3 ±.05	522,000	2850 @ 78 ft	7140393 7553296 7553347

CHART 7. CALIBER 5.56 MILIMETER MMUNITION

LINE NO.	TYPE CLASSI-FICA-TION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DRAWING NO.	SPEC NO.	INDENTI-FICA-TION	TYPE & MODEL OF WEAPON
1	STD	5143	M193	D10523632	MIL-C-9963	Plain Tip	Rifle M16, M16A1 & M16A2
2	STD	6919	M195 (Grenade Ctg)	C10534926	MIL-C-60537	Rosette Crimp & Red Tip	Rifle M16, M16A1 & M16A2
3	STD	5055	M196	C10534193	MIL-C-60111	Red Tip	Rifle M16, M16A1 & SMG M231 2/
4	STD	4484	M197 (HPT)	D10533839	MIL-C-46936	Stannic Stained or Nickel Plated Case	For Proof-Testing Barrels & Weapons (Not A Service Cartridge)
5	STD	4662	M199 (Dummy)	C10534021	MIL-D-46399	6 Corrugations	Rifle M16, M16A1 & M16A2
6	STD	5942	M200 (Blank)	C10542379	MIL-C-60616	Cannelure 1/2" From Head, Case Mouth Rosette crimped	Rifle M16, M16A1 & M16A2
7	STD	4485	M232 (Dummy)	D10534146	MIL-D-60254	Chemical Black	Rifle M16, M16A1 & M16A2
8	STD	04786005	M755 1/ (Grenade Ctg)	C122-3-43	PD-EA-C1144 Rev. B	Rosette Crimp Case Mouth Yellow Lacquer	Rifle M16, M16A1 & M16A2
9	STD LCC-A	02846001	M862 Plastic-Training	D9341508	MIL-STD-105-D	Brass Case w/Blue Plastic Bullet	Rifle M16, M16A1 & M16A2
10	STD LCC-A	02826009	M855	9342862	MIL-C-63989	Green Tip	M249 SAW & M16A2
11	STD LCC-A	02826009	M856	9342863	MIL-C-63990	Orange Tip	M249 SAW & M16A2

1/ Cartridge Blank 5.56MM: M755 is used only with Riot Control Projectile 64MM: RC M743 and is issued with same pack.
2/ SMG M231 Submachine Gun fires M196 Tracers only.

CHART 7. CALIBER 5.56 MILIMETER MMUNITION

CARTRIDGE TOTAL WEIGHT (GRAINS)	BULLET			JACKET		
	DRAWING NO.	TYPE	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)
182.0 -14.0	C10524197	Ball	56.0 -2.0	—	Copper Alloy	17.5 -1.0
126.0 -4.0	Wad A10534928	—	—	—	—	—
177.0 -11.0	C10534194 C10542726	Tracer	54.0 -2.0	C10534195 C10542727	GMCS	24.0 -1.0
174.0 -11.0	C10524197	Ball	56.0 -2.0	—	Copper Alloy	17.5 -1.0
150.0 -7.0	C10533843	Ball	56.0 -2.0	—	Copper Alloy	17.0 -1.0
107.0 -5.0	—	—	—	—	—	—
181.5 -7.0	C10533843	Ball	56.0 -2.0	—	Copper Alloy	17.5 -1.0
112.0	—	—	—	—	—	—
114	—	Ball Plastic	3.08 —	—	—	—
190.0	—	Ball	62.0	—	GM	19.8
192.0	—	Tracer	63.7	—	GMCS	27.7

CHART 7. CALIBER 5.56 MILIMETER MMUNITION

SLUG		POINT FILLER			CARTRIDGE CASE	
MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL
PBSB	38.5 -1.0	–	–	–	C10524200	Brass
–	–	–	–	–	C10534927	Brass
–	–	B10542728	PBSB	26.5 -0.5	C10524200	Brass
PBSB	38.5 -1.0	–	–	–	C10533840	Brass
PBSB	38.5 -1.0	–	–	–	C10534022	Brass
–	–	–	–	–	C10534927	Brass
PBSB	38.5 -1.0	–	–	–	C10533842	Brass
–	–	–	–	–	10524200	Brass
–	–	–	–	–	95-91-18213	Brass
–	–	–	Lead/Steel	–	10524200	Brass
–	–	–	Lead	–	10524200	Brass

CHART 7. CALIBER 5.56 MILIMETER MMUNITION

PRIMER	PROPELLANT		PERFORMANCE		PACKING
DRAWING NO.	DESIGNATION	APPROX WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
C10534279	WC844	28.5	52,000 Max Avg	3250 ± 40 @ 15 Ft	F10534605 F10535858 F10542258 F10542651
C10534279	IMR 4475	25.0	–	140 to 165 @ 5 Ft 6 In.	F10542291
C10534279	IMR 8208M Or WC844	25.3 Or 28.5	52,000 Max Avg	3200 ± 40 @ 15 Ft	F10534605 F10535858 F10542258
C10534279	SR7641	16.7	70,000 +3,000 Max	–	F10534017 F10542540
–	–	–	–	–	F10535858
C10534279	HPC 13	7.0	–	–	F10542291
–	Sodium Carbonate Monohydrate	31.0	–	–	F10535858
10534279	Hi-Skor 700X	–	12.0	–	F10542290 F10542291
4033-001E	Monobase nitrocellulose	8.0	25,000	3200 ± 80 5230 ± 170 @ 8.2 ft	Coml Pack
Percussion 10534279-1	WC844	26.1	55,000	3025 82 ft from muzzle	9349296 7553296 7553347
Percussion 10534279-1	WC844	24.3	55,000	2870 82 ft from muzzle	9349296 7553296 7553347

CHART 8. 7.62 MILLIMETER NATO AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DRAWING NO.	SPEC. NO.	IDENTIFICATION	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)	BULLET			
									DRAWING NO.	TYPE	WEIGHT (GRAINS)	
1	STD	36841	M59	C7553702	MIL-C-46277	Plain Tip	Machine Gun, M60, M219 & Rifle, M14	393.0 -27.0	C7553745	Ball	Cut Cannelure 150.5 -6.5 Knurled Cannelure 150.5 -5.5	
2	OBS	04776009	M60 (HPT)	C7553703	MIL-C-46477	Stannic Stained Case	For Proof-Testing Weapons	412.0 -23.5	B6016309	Ball	174.5 -3.0	
3	OBS	11756003	M61 AP	C7553704	MIL-C-60617	Black Tip	Machine Gun, M60, M219 & Rifle, M14	393.0 -27.0	C7553740	AP	Cut Cannelure 150.5 -6.5 Knurled Cannelure 150.5 -5.5	
4	CON	11756003	M62	C10522000	MIL-C-46281	Orange Tip	Machine Gun, M60, M219 & Rifle, M14	383.0 -29.0	C7553758	Tracer	142.0 -4.0	
5	STD	36841	M62 (Overhead Fire Application)	C10535493	MIL-C-60252	Red Tip	Machine Gun, M60, M219, M240, Rifle, M14	387.0 -29.0	C10535494	Tracer	146.0 -4.0	
6	STD	36841	M63 (Dummy)	C7553706	MIL-C-3498	6 Corrugations	Machine Gun, M60, M219 & Rifle, M14	258.0 -21.5	B7553762	Ball	68.0 -1.5	
7	OBS	11756003	M64 (Grenade Ctg)	C7553707	MIL-C-46666	Rosette Crimp	Rifle, M14	295.0 -21.0 236.0 -21.0 241.0 -21.0	WAD A5196636	–	–	
8	STD LCC-A	07798001	M80	C10521998	MIL-C-46931	Plain Tip	Machine Gun, M60, M219, M240, Rifle, M14	392.0 -31.0	B8595669	Ball	149.0 -3.0	

CHART 8. 7.62 MILLIMETER NATO AMMUNITION

JACKET				CORE OR SLUG			POINT FILLER		
DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	CUP DRAWING NO.	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)
B7553741	Copper Alloy	57.0 -1.5	B7553862	B7553746	Steel	55.0 -2.0	B7553743	PBSB	21.0 -1.0
B6139101	Copper Alloy	59.0 -1.5	B7553862	B6010988	PBSB	115.5 -1.5	–	–	–
B7553741	Copper Alloy	57.0 -1.5	B7553862	B7553742	Steel	55.0 -2.0	B7553743	PBSB	21.0 -1.0
C7553759	GMCS	60.0 -1.5	B10542632 / B7553946	–	–	–	B7553760	PBSB	72.0 -1.5
C10523993	Copper Alloy	65.5 -1.5	B10522393	–	–	–	B7553760	PBSB	72.0 -1.5
B7643672	GMCS	68.0 -1.5	B7553946	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
B8585668	GMCS	34.5 -1.5	B7553579 (1 Dwg) / B7585163 (2 Dwg)	B8595667	PBSB	114.5 -1.5	–	–	–

CHART 8. 7.62 MILLIMETER NATO AMMUNITION

BASE FILLER / BASE CLOSURE SEAL			CARTRIDGE CASE				PRIMER	
DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	CUP DRAWING NO.	WEIGHT (GRAINS)	DRAWING NO.	DESIGNATION NO.
B7553744	PBSB	11.5 -1.0	D10521997	Brass	B10522459	190.0 -20.0	C10522621	34
–	–	–	C10534599	Brass	B10522459	190.0 -20.0	C10522621	34
B7553744	PBSB	11.5 -1.0	D10521997	Brass	B10522459	190.0 -20.0	C10522621	34
A75-5159	Copper Alloy	Approx	D10521997	Brass	B10522459	190.0 -20.0	C10522621	34
–	–	–	C10534599	Brass	B10522459	190.0 -20.0	C10522621	34
–	–	–	C7553761	Brass	B10522459	190.0 -20.0	–	–
–	–	–	B7553772	Brass	B10522459	190.0 -20.0	C10522621	34
							B10535489	43
–	–	–	D10521997	Brass	B10522459	190.0 -20.0	C10522621	34

CHART 8. 7.62 MILLIMETER NATO AMMUNITION

PROPELLANT		PERFORMANCE		PACKING
DESIGNATION NO.	APPROX WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
WC846 IMR4475	46.0 41.0	50,000 Max Avg	2750 ± 30	F7553708 F7553747 F8593306 F8597306 F8594726
IMR4475	41.0	67,500 ± 2,500 Max Avg	–	D8595430 D8595398
IMR4475 WC846	41.0 46.0	50,000 Max Avg	2750 ± 30 @ 78 Ft	D7553708 D7553747
WC846	46.0	50,000 Max Avg	2750 ± 30 @ 78 Ft	F7553708 F7553747 F8593306 F8594726 F8597306 F10521861 F10535781
WC846	46.0	50,000 Max Avg	2680 ± 30 @ 78 Ft	F10523087 F7553747
–	–	–	–	F7553747
HPC4 IMR8097 WC830	37.0 40.0 45.0	–	160 ± 5 @ 5.6 Ft	F10521851
WC846	46.0	50,000 Max Avg	2750 ± 30 @ 78 Ft	F7553708 F7553747 F8593306 F8594726 F8597306 F10521861 F10534931 F10535781 F10542678

CHART 8. 7.62 MILLIMETER NATO AMMUNITION -- CONTINUED

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DRAWING NO.	SPEC NO.	IDENTIFICATION	TYPE & MODEL OF WEAPON	CARTRIDGE TOTAL WEIGHT (GRAINS)	BULLET		
									DRAWING NO.	TYPE	WEIGHT (GRAINS)
9	STD LCC-A	07798001	M80 (Overhead Fire Application)	C10523088	MIL-C-60251	Plain Tip	Machine Gun, M60, M219 & Rifle, M14	393.0 -31.0	C10522590	Ball	149.0 -3.0
10	STD	37841	M82 (Blank)	C8597283	MIL-C-46933	Double Tapered Neck and No Bullet	Machine Gun, M60, M219 & Rifle, M14	235.0 -18.5	WAD A8597285	–	–
11	STD	2186	M118 (Match) 1/	C8597555	MIL-C-46934	"Match" Or "NM" Stamped On Head Of Case	Rifle, M14 National Match	390.0 Approx	B8595434	Ball	175.5 -3.0
12	STD	2373	M160 Frangible	C10522476	MIL-C-46932	Green Tip	Machine Gun, M219	315.0 -24.0	B7640952	Frangible	108.5 -3.0
13	STD	4635	M172 (Dummy)	C10522688	MIL-D-60573	Black Oxide	Machine Gun, M60	385.0 -23.0	C10522711 C11744263	Ball	149.0 -3.0
14	–	–	XM192 (Blank)	C10523631	MIL-C-60130	No Bullet	Rifle, M14	218.0 -22.0	WAD A10523630	–	–
15	OBS	11756003	M198	C10534595	MIL-C-60131	Green Tip	Machine Gun, M60, (Pending) Rifle, M14	411.0 -31.0	C10534596 (Front) C10534597 (Rear)	Ball Duplex	84.0 -4.0 85.0 -4.0
16	STD	09816009	M852 (Match)	9341551	MIL-L-10287	"Match" Stamped on Head of Case	Rifle, M14 National Match	385.0	9340728	Ball	168.0

1/ Redesignated as NATO Special by MSR 01836003 for use as "sniper cartridge."

CHART 8. 7.62 MILLIMETER NATO AMMUNITION -- CONTINUED

JACKET				CORE OR SLUG			POINT FILLER		
DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	CUP DRAWING NO.	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)
C10522591	Copper Alloy	52.0 -1.5	B7553862	B10522592	PBSB	97.0 -1.5	–	–	–
–	–	–	–	–	–	–	–	–	–
C8595435	Copper Alloy	60.0 -1.5	B8595436	B8595437	PBSB	115.5 -1.5	–	–	–
–	–	–	–	–	–	–	–	–	–
C10522591	GMCS	52.0 -1.5	B7553862	B10522592	PBSB	97.0 -1.5	–	–	–
B8595668	GMCS	34.5 -1.5	B7553579 (1 Dwg) B7585163 (2 Dwg)	B8595667	PBSB	114.5 -1.5			
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	Steel	–	–	–	–
–	–	–	–	–	Steel	–	–	–	–
–	Brass 90/10	43.5	–	–	Lead	124.5	–	–	–

CHART 8. 7.62 MILLIMETER NATO AMMUNITION -- CONTINUED

BASE FILLER BASE CLOSURE SEAL			CARTRIDGE CASE				PRIMER	
DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	CUP DRAWING NO.	WEIGHT (GRAINS)	DRAWING NO.	DESIGNATION NO.
–	–	–	C10534599	Brass	B10522459	190.0 -20.0	C10522621	34
–	–	–	C8597284	Brass	B5203372 (4 Dwg) B10521301 (3 Dwg)	213.0 -16.0	C10522621 B10535489	34 43
–	–	–	C8597567	Brass	B10522459	190.0 -20.0	C10522621 B8594094 B10535489	34 36 43
–	–	–	C10534599	Brass	B10522459	190.0 -20.0	C10522621	34
–	–	–	C10522710	Brass	B10522459	190.0 -20.0	–	–
–	–	–	B7553772	Brass	B10522459	224.0 -14.0	C10522621	34
–	–	–	C10534599	Brass	B10522459	190.0 -20.0	C10522621	34
–	–	–						
–	–	–	8597567	Brass	10522459	175.0 g	10535489-1	43

CHART 8. 7.62 MILLIMETER NATO AMMUNITION -- CONTINUED

PROPELLANT		PERFORMANCE		PACKING
DESIGNATION NO.	APPROX WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
WC846	46.0	50,000 Max Avg	2750 ± 30 @ 78 Ft	F10523087 F7553747
SR8231 HPC2 WC818	15.0 14.5 14.5	–	–	F8594726 F8597306 F10523070
WC846 IMR4895	44.0 42.0	50,000 Max Avg	2550 ± 30	F8596112 F8596109
SR8074 HPC8 WC140	10.5 8.3 11.4	–	1320 ± 50 @ 100 Yds	F10522478 F10522480
Sodium Carbonate Monohydrate	–	–	–	F10522703 F10542739 F10521861
SR4759	21.5 -1.0	–	–	F10534510
WC740	45.5	50,000 Max Avg	2750 ± 30 @ 78 Ft (Front Bullet) 2200 Min @ 78 Ft (Rear Bullet)	F10534619 F10535457 F597306
IMR4895	42.0	50,000	2550 777 m/s	7553296 7553347

CHART 9. 9MM, 10MM, 14.5MM, 15MM AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE DESIGNATION	CARTRIDGE DRAWING NO.	SPEC. NO.	INDENTIFICATION	TYPE & MODEL OF WEAPON	BULLET		
								DRAWING NO.	TYPE	WEIGHT (GRAINS)
1	—	—	Coml	D10542448	MIL-C-46935	9 MM (Coml)	Pistol, 39 S&W, Sub-Mch, S&W & Sub Mch, Walther	—	Ball	115.0 ±1.0
2	DA Ltr	LP	XM882	9345211	ANSI-Y14.5 1973	Plain Tip	XM9	9345212	Ball	124
3	DA Ltr	LP	XM905	9378265	—	Stannic Stained Case	XM9	9345212	HPT	124
4	—	—	XM75	FC10240	—	Yellow Tip, Red Annulus	—	FC10228	Spotter Tracer	—
5	STD	138	M181A1 (3 Sec)	9098295	—	Yellow Tip	Trainer, Arty, M31	—	Air Burst	908.0 Approx
6	STD	138	M182A1 (6 Sec)	9098297	—	Yellow Tip	Trainer, Arty, M31	—	Air Burst	908.0 Approx
7	STD	138	M183A1 (Fuze PD)	9098293	—	Yellow Tip	Trainer, Arty, M31	—	PD	908.0 Approx
8	—	—	XM170	FD23163	—	—	—	FB53594	Ball	1955.0 Approx
9	—	—	XM177 (Dummy)	SFD23212	—	—	—	FB53594	Ball	1955.0 Approx with Second Cannelure
10	—	—	XM108E1	FD23042	—	Yellow Tip, Red Annulus	—	FB54326	Spotter Tracer	1221.0 Approx
11	—	—	XM157	FD23163	—	Yellow Tip, Red Annulus	—	FB54326	Spotter Tracer	1880.0 Approx

CHART 9. 9MM, 10MM, 14.5MM, 15MM AMMUNITION

JACKET			CORE OR SLUG			POINT FILLER		
DRAWING NO.	MATERIAL	WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	APPROX WEIGHT (GRAINS)	DRAWING NO.	MATERIAL	WEIGHT (GRAINS)
			9MM					
—	Gilding Metal	—	—	PBSB	—	—	—	—
—	Gilding Metal	23	—	PBSB	101	—	—	—
—	Gilding Metal	23	—	PBSB	101	—	—	—
			10MM					
FB53268	Copper Alloy	—	—	—	—	—	—	—
			14.5MM					
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
			15MM					
—	—	—	—	—	—	FB53619	PBSB	—
—	—	—	—	—	—	FB53619	PBSB	—
FB54327	Copper Alloy	—	FB54328	PBSB	274.0	—	—	—
FD54327	Copper Alloy	441.0 Approx	FB53600	—	1343.0	—	—	—

CHART 9. 9MM, 10MM, 14.5MM, 15MM AMMUNITION

BASE FILLER CUP CLOSURE CLOSURE DISK		CARTRIDGE CASE				PRIMER		
DRAWING NO.	MATERIAL	DRAWING NO.	MATERIAL	CUP DRAWING NO.	WEIGHT (GRAINS)	DRAWING NO.	DESIGNATION NO.	
–	–	–	Brass	–	–	–	Coml	
–	–	9345213	Brass	–	57	9354609	Coml	
–	–	9398262	Brass	–	57	9354609	Coml	
FA30488	PBSB	FC10241	Brass	–	190.0 Approx	B6200959	–	
–	–	–	AL	–	–	B10535489	43	
–	–	–	AL	–	–	B10535489	43	
–	–	–	AL	–	–	B10535489	43	
–	–	FD23161	Brass	–	1830.0 Approx	FC11194	–	
–	–	FD23161	Brass	–	1830.0 Approx	–	–	
–	–	FC10204	Brass	–	880.0 Approx	B7645339	Coml	
–	–	FD23161	Brass	–	–	FC11194	–	

CHART 9. 9MM, 10MM, 14.5MM, 15MM AMMUNITION

	PRIMER		PROPELLANT		PERFORMANCE		PACKING
WEIGHT (GRAINS)	DRAWING NO.	DESIGNATION NO.	DESIGNATION NO.	APPROX WEIGHT (GRAINS)	PRESSURE (PSI)	VELOCITY (FPS)	
–	–	Comi	Comi	–	36,000	1340 ± 40 @ 15 Ft	7553296 7553347
87	8864000	Comi	WC207	6.8	36,000	3000 ± 35 @ 36m	7553296 7553347
87	8864000	Comi	WC350	7.0	40,000	–	7553296 7553347
100.0 Approx	B8868000	–	IMR 4198	5.94	10,000 To 12,000 (Low Side)	–	–
–	B10838400	43	HI SHOK 700X	3.5	–	100 M/S 330 fps 15 Ft	–
–	B10838400	43	HI SHOK 700X	3.5	–	100 M/S 330 fps 15 Ft	–
–	B10838400	43	HI SHOK 700X	3.5	–	100 M/S 330 fps 15 Ft	–
1830.0 Approx	FC11204	–	IMR 4895	300.0	–	–	–
1830.0 Approx	–	–	Sodium Carbonate Monohydrate	375.0	–	–	–
800.0 Approx	B7645320	Comi	EX7903	171.0	45,000	–	–
–	FC11204	–	IMR 4895	300.0	53,000 Approx	–	–

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CHART 10. 20 MILLIMETER AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE			DESIGNATION OF GUN	CARTRIDGE TOTAL WEIGHT
			DESIGNATION	DWG. NO.	SPEC. NO.		
1	STD	6900	M51A2	D11075758	MIL-C-46546	M39, M61 & M168 M195	3850.0 Grains Min.
2	STD	37404	M52E1	D7259218	MIL-C-60268	M39 & M61, M195	3900.0 Grains
3	STD	36841	M53	D7258802	MIL-C-46577	M39 & M61 M195	3980.0 Grains
4	STD	6899	M54A1	D7258858	MIL-C-46635	M103	4392.0 Grains
5	STD	6899	M55A2	D7258817	MIL-C-46552	M39 & M61 M168 M195	3935.0 Grains
6	STD LCC-B STD LCC-A	03816015 03816015	M56A3 M56A4	D7259023 D11075861	MIL-C-46578 MIL-C-48617	M39, M61 & M168 M197	4000.0 Grains
7	CON	36841	M95	75-1-177	MIL-C-11255	M24A1, M3, MK16 & Br 4 S/A	3990.0 Grains (0.57 lb)
8	CON	36841	M96	75-1-178	MIL-C-11255	M24A1, M3, Mk 16 & Br 4 S/A	3850.0 Grains (0.55 lb)
9	STD	4376	M97A2	D7259063	MIL-C-46621	M24A1	4000.0 Grains
10	N/A	N/A	M97E3	D11075756	LCA-PD-35	M24A1	4000.0 Grains
11	STD	374C3	M99A1	D7258849	MIL-C-46553	M24A1	4000.0 Grains
12	N/A	N/A	M204	D7259106	MIL-C-60275	M3	4000.0 Grains

CHART 10. 20 MILLIMETER AMMUNITION

PROJECTILE			FUZE OR NOSE			
DWG. NO.	TYPE & MODEL DESIG-NATION	WEIGHT	DWG. NO.	MATERIAL	WEIGHT	TYPE & MODEL DESIG-NATION
D11075759	Dummy M51A2	1520.0 ± 30.0 Grains	—	—	—	—
D7259219	APIT M52E1	1530.0 Grains	7258806	Aluminum	177.0 Grains	Nose Charged Assembly
D7258803	API M53	1546.0 ± 35.0 Grains	7258806	Aluminum	177.0 Grains	Nose Charged Assembly
D7258859	HPT M54A1	1965.0 ± 10.0 Grains	—	—	—	—
D11075781 D9342861	TP M55A3 (M55A3B1) (M55A4B1)	1521.0 ± 30.0 Grains	C7258814	Aluminum	146.0 Grains	Solid Nose
D7259024 D7259229	HEI M56A3 M56A4	1565.0 Grains Approx	D7258863	Aluminum & Steel	335.0 Grains	PD M505A3
75-14-435	APT M95	2000.5 Grains Approx.	75-2-341	Steel	200.0 Grains	Windshield
75-14-439A	Incnd M96	1933.5 Grains	—	—	—	—
D7259064	HEI M97A2	2000.0 ± 40.0 Grains	D7258863	Aluminum & Steel	335.0 Grains	PD M505A3
D11075757	HEI M97E3	2000.0 ± 40.0 Grains	D7259055	Aluminum & Steel	343.0 Grains	PD M505A2
D7258846	TP M99A1	2000.0 ± 35.0 Grains	C7258814	Aluminum	146.0 Grains	Solid Nose
D7258846	TP M204	2000.0 Grains	C7258814	Aluminum	146.0 Grains	Solid Nose

CHART 10. 20 MILLIMETER AMMUNITION

CARTRIDGE CASE				PRIMER	
DWG. NO.	MATERIAL & MODEL DESIG-NATION	CUP DWG. NO.	WEIGHT	DWG. NO.	DESIG-NATION
D7553843 D11075813	Steel M103A1	—	1775.0 ±50.0 Grains	7259074 Case Plug	—
D7553815	Brass M103	B7553860	1855.0±50.0 Grains	D7548066	M52A3B1 Elec
D7553815 D11075813	Brass M103A1 Steel	B7553860	1775.0±50.0 Grains	D7548066	M52A3B1 Elec
D7553815 D11075813	Brass M103 or Steel M103A1	B7553860	1775.0±50.0 Grains	D7548066	M52A3B1 Elec
D7553815 D11075813	Brass M103 or Steel M103A1	B7553860	1775.0±50.0 Grains	D7548066	M52A3B1 Elec
D7553815 D11075813	Brass M103 Steel M103A1	B7553860	1575±50,0. Grains	D7548066	M52A3B1 Elec
D7553197	Copper Alloy M21A1	B7553198	1520.0±50.0 Grains	74-2-57	M36A1 Perc
D7553197	Copper Alloy M21A1	B7553198	1520.0±50.0 Grains	74-2-57	M36A1 Perc
D7553197	Copper Alloy M21A1	B7553198	1520.0±50.0 Grains	D7548066	M52A3B1 Elec
D7553197	Copper Alloy M21A1	B7553198	1520.0±50.0 Grains	D7548066	M52A3B1 Elec
D7553197	Copper Alloy M21A1	B7553198	1520.0±50.0 Grains	D7548066	M52A3B1 Elec
D7753197	Copper Alloy M21A1	B7553198	1520.0±50.0 Grains	D7259094	M36A2 Perc

CHART 10. 20 MILLIMETER AMMUNITION

PROPELLANT		PERFORMANCE		PACKING
DWG. NO. AND/OR DESIG-NATION	WEIGHT	PRESSURE (PSI)	VELOCITY (FPS)	
Inert Calcium Carbonate	635.0 Grains Approx	–	–	F7258942
C10534813 WC870 C9326796 WC872	MBR	Not to Exceed 60,500	3380± 50 @ 78 Ft	F7258941 F7258942 F7258968
C9326796 WC872	MBR	Not to Exceed 60,500	3380 ± 50 @ 78 Ft	F7258969 F7258970
C9326796 WC872	600.0 Grains Approx	62,500 to 72,500	–	F7258941 F7258942
C10534813 WC870 9326796 WC872	MBR	Not to Exceed 60,500	3380 ± 50 @ 78 Ft	F7258941 F7258942 F7258968
C10534813 WC870 9326796 WC872	600.0 Grains Approx	Not to Exceed 60,500	3380 ± 50 @ 78 ft	F7258969 F7258970 D7258943
75-1-177A	470.0 Grains Approx	51,000	2680± 50 @ 78 Ft	D7258943 D7258940
75-1-178A	470.0 Grains Approx	51,000	2680± 50 @ 78 Ft	D7258943 D7258940
10534814 IMR7013 10534815 WC875	MBR	51,000	2680 ± 50 @ 78 Ft	D7258940 D7258943
A7258850 or 7548219	MBR	51,000	2680	D7258940 D7258943
C10534814 IMR7013	500.0 Grains Approx	51,000	2680± 50 @ 78 Ft	D7258940 D7258943
C10534814 IMR7013 C10534815 WC875	MBR	51,000	2680 ± 50 Ft/sec @78 Ft	F7258967 F7259108 F7259123 F7259188 F7259189 F11075755

CHART 10. 10 MILLIMETER AMMUNITION -- CONTINUED

LINE NO.	TYPE CLASSI-FICA-TION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE			DESIG-NATION OF GUN	CARTRIDGE TOTAL WEIGHT
			DESIG-NATION	DWG. NO.	SPEC. NO.		
13	STD	4762	M206A1	F10542655	MIL-C-50600	M139	4886.0 Grains
14	STD	5433	M210	D7259105	MIL-C-50388	M3	4000.0 Grains
15	STD	7404	M220	D7259146	MIL-C-60609	M39, M139, M61 M168	3935.0 Grains
16	N/A	N/A	M239 (HPT)	F10542341	N/A	M139	317.0 Grams Approx
17	N/A	N/A	M240 (Dummy)	F10542340	N/A	M139	317.0 Grams Approx
18	STD STD	6445	M242 M242A1	D7259268 D9341740	MIL-C-60836 MIL-C-63442	M39 & M61	3865.0 Grains Approx
19	N/A	N/A	M254	D7259254	MIL-D-50720	M39 & M61 & M168	4005.0 ± 50 Grains Approx
20	STD LCC-B STD LCC-A	03816015 03816015	M246 M246A1	D10542384 9333764	MIL-C-60678 MIL-C-63413	M168	4070.0 Grains
21	STD	6391	M599	F10535815	TL-1305-027	M139	317.0 Grams
22	STD	4762	M601	F10535805	TL-1305-068	M139	310.0 Grams
23	—	—	Reference Round	F10542338	—	M139	317.0 Grams

CHART 10. 10 MILLIMETER AMMUNITION -- CONTINUED

PROJECTILE			FUZE OR NOSE			
DWG. NO.	TYPE & MODEL DESIG-NATION	WEIGHT	DWG. NO.	MATERIAL	WEIGHT	TYPE & MODEL DESIG-NATION
D10542656	TPT M212A1	1860.0 ± 30.0 Grains	C10542660	Aluminum	229.0 Grains	Solid Nose
D7259064	HEI M97A2	2000.0 ± 40.0 Grains	D7558863	Aluminum & Steel	335.0 Grains	PD M506A3
D7259147	TPT M221 M221B1	1550.0 ± 30.0 Grains	D7258814	Aluminum Alloy	146.0 Grains Wt Controlled	Solid Nose
D10542339	M241 Inert	118.0 Grams	C10535809	Aluminum	13.45 ± 0.3 Grams	Solid Nose
D10542339	M241 Inert	118.0 Grams	C10535809	Aluminum	13.45 ± 0.3 Grams	Solid Nose
D7259269 9341739	HEIT M242 HEIT M242A1	1595.0 Grains	D7258863	Aluminum & Steel	335.0 Grains	PD M506A3
—	Dummy	—	—	—	—	—
D10542424	HEIT Pyro-Self-Destruct	1587.0 ± 15.0 Grains	7258863	Aluminum & Steel	335.0 Grains	PD M506A3
F10535814	M600 HEIT	122.0 ± 2.0 Grams	F10535855	Aluminum	31.0 ± 0.0 Grams	Self-Destruct M594
F10535799	M602 APIT	111.0 ± 2.0 Grams	C10535796	Aluminum	9.4 ± 0.3 Grams	Windshield
D10542337	Inert Reference	122.0 ± 0.5 Grams	C10535809	Aluminum	13.45 ± 0.3 Grams	Solid Nose

CHART 10. 10 MILLIMETER AMMUNITION -- CONTINUED

CARTRIDGE CASE				PRIMER	
DWG. NO.	MATERIAL & MODEL DESIG-NATION	CUP DWG. NO.	WEIGHT	DWG. NO.	DESIG-NATION
D10542497	Steel M204	—	2280 ± 50 Grains	C10542585	M115
D7553197	Copper Alloy M21A1	B7553198	1520.0 ± 50.0 Grains	D7259094	M36A2 Perc
D7553815 D11075813	Brass M103 Steel M103A1	B7553860	1775.0 ± 50.0 Grains	D7548066	M52A3B1 Elec
D10535803	Steel M187	—	134.2 ± 5.8 Grams	C10535802	M103 Perc
D10535803	Steel M187	—	134.2 ± 5.8 Grams	C10535801	Housing Primer
D7553815 D11075813	Brass M103 or Steel M103A1	B7553860	1855.0 ± 50.0 Grains 1775.0 ± 50.0 Grains	D7548066	M52A3B1 Elec
—	—	—	—	—	—
D7553815 D11075813	Brass M103 or Steel M103A1	B7553860	1855.0 ± 50.0 Grains 1775.0 ± 50.0 Grains	D7548066	M52A3B1 Elec
D10535803	Steel M187	—	134.2 ± 5.8 Grams	C10536802	M103 Perc
D10535803	Steel M187	—	134.2 ± 5.8 Grams	C10535802	M103 Perc
D10535803	Steel M187	—	134.2 ± 5.8 Grams	C10535802	M103 Perc

CHART 10. 10 MILLIMETER AMMUNITION -- CONTINUED

PROPELLANT		PERFORMANCE		PACKING
DWG. NO. AND/OR DESIG-NATION	WEIGHT	PRESSURE (PSI)	VELOCITY (FPS)	
CT8325 C11731646	MBR	54,000 Max Avg	3430 ± 50 @ 78 Ft	F10542309
C10534814 IMR7013 C10534815 WC875	MBR	51,000	2680 ± 50 @ 78 Ft	F11075755 F7258967 F7258189 F7258188
C10534813 WC870	MBR	Not to Exceed 60,500	3380 ± 50 @ 78 Ft	F7258941 F7258942
VTL-1375-502	MBR	Range 55,000 to 61,000	—	F10542331
Thermo Setting Plastic	54.8 ± 3.2 Grains	—	—	F10542331
C10534813 WC870 C9326796 WC872	600.0 Grains Approx. MBR	Not to Exceed 60,500	3380 ± 50 @ 78Ft	D7258925 D7258943
—	—	—	—	F7258942
10534183 WC870 10534816 WC872	MBR	Not to Exceed 60,500	3380 ± 50 @ 78 Ft	F7258942 F7258969 D7258928 F7258941
VTL-1375-502	52.0 Grams Approx	49,500 Max Avg	3460 ± 50 @ Ft	F10542309
VTL-1375-502	53.0 Grams Approx	49,500 Max Avg	3610 ± 50 @ Ft	F10542309
VTL-1375-502	50.0 Grams Approx	49,500 Max Avg	3460 ± 16 @ Ft	F10542331

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CHART 11. 25 MILLIMETER AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE			DESIGNATION OF GUN	CARTRIDGE WEIGHT
			MODEL NO.	DRAWING NO.	SPEC. NO.		
1	STD	12796010	M791	12013533	MIL-A-2550 AS567862	M242	458g
2	STD	12796010	M792	12013230	MIL-A 2550 AS567256	M242	501g
3	STD	12796010	M793	12013224	MIL-A-2550 AS128452	M242	501g
4	STD	DA Ltr 12/81	M794	12013880	AS-12013885	M242	485 ± 25
5	STD	02816005	M839 2/	9329609	MIL-C-63338/C	Dispenser M130	153.1 g (0.34 lbs)

1/ W/Tracer Pellet.
2/ Designated as 25.4 Millimeter.
3/ Cartridge case cavity is filled with an epoxy resin filler to approximate weight of the service cartridge.

CHART 11. 25 MILLIMETER AMMUNITION

PROJECTILE				FUZE		
MATERIAL	DRAWING NO.	TYPE	WEIGHT	MODEL	TYPE	DRAWING NO.
1) Pentrator Tungsten - Alloy 2) Sabot Nylon - Polyethylene Allum Base 3) CAP Protective	12013538 12013521 12013534	APDS-T 1/	134.0g	N/A	N/A	N/A
Steel C1045	12013229	HEI-T 1/	183.0g	M758	PDSD	12013222 11731326
Steel C1035 12L14	12013221	TP-T 1/	116.8g	N/A	N/A	N/A
Steel C1035	12013880	Dummy Inert	116.8g	N/A	N/A	N/A
Aluminum Coated Glass Rods	9329609	Decoy	120.0 g (0.26 lbs)	N/A	N/A	N/A

CHART 11. 25 MILLIMETER AMMUNITION

CARTRIDGE CASE			PROPELLANT			
MODEL	DRAWING NO.	MATERIAL	COMPOSITION	WEIGHT	DRAWING NO.	PRIMER
—	12013216 12013217 (Primer)	C1030 Steel	Radford AP-25	98g	12013535	M115 Percussion C1054285
—	12013216 12013217 (Primer)	C1030 Steel	Olin WC 890	90.0g	12013231	M115 Percussion C1054285
—	12013216 12013217 (Primer)	C1030 Steel	Olin WC 890	90.0g	12013231	M115 Percussion C1054285
—	12013216	C1030 Steel	Inert 3/	90.0g	N/A	N/A
M1	9311402	Plastic	Hercules Ball Eyes Smokeless	0.385g (0.013oz)	9311660	Ctg. Impulse M796 9311660

CHART 11. 25 MILLIMETER AMMUNITION

PERFORMANCE		PACKING	
MAX RANGE	MVS	INNER	OUTER
15,000	1330 m/s (4362 fps)	12013702 12013700 12013298-1	12013300 12013301 or 12013668
3,000	1100 m/s (3608 fps)	12013702 12013700 12013298-1	12013300 12013301 or 12013668
6,000	1100 m/s (3608 fps)	12013702 12013700 12013298-1	12013300 12013301 or 12013668
—	—	12013702 12013700 12013298-1	12013300 12013301 12013668
N/A	N/A	8865541	9329776

CHART 12. 30 MILLIMETER AMMUNITION

	TYPE CLASSI-FICA-TION	MSR, AMCTCM OR OTCM NO.	CARTRIDGE			DESIGNATION OF GUN	CTG. WT.
			MODEL	DWG. NO.	SPEC. NO.		
1	STD LCC-A	04826009	M788	28114038	DS8851	M230 (US) MK IV (NATO) M552/M553 (NATO)	352.8g
2	STD LCC-A	04826009	M789	28114062	DS8853	M230 (US) MK IV (NATO) M552/M553 (NATO)	350.5g
3	LP	08806004	XM799	28114047	DS8852	M230 (US) MK IV (NATO) M552/M553 (NATO)	348 g
4	STD LCC-A	06827003	M883	11825941	DOD-C-64018	M230	442g
5	STD LCC-A	04826009	M848	11825935	DOD-C-64019	M230	352.8g

CHART 12. 30 MILLIMETER AMMUNITION

PROJECTILE				FUZE		
MATERIAL	DWG. NO.	TYPE	WEIGHT	DESIG-NATION	TYPE	DWG. NO.
Steel	28114039	TP	216 g	—	—	—
Steel	28114061	HEDP	233 g	M759	PD	28200383
Steel	28114048	HEI	233 g	M759	PD	28200383
Steel	11825942	HPT Test	326g	—	—	—
Steel	11825936	Dummy	237g	—	—	—

CHART 12. 30 MILLIMETER AMMUNITION

CARTRIDGE CASE			PROPELLANT		
MATERIAL	DWG. NO	WEIGHT	COMPOSITION	WEIGHT	DWG. NO./ SPECIFICATION
Aluminum	11825905	60 g	WC855	MBR 50 g	DS8861
Aluminum	11825905	60 g	WC855	MBR 50 g	DS8861
Aluminum	11825905	60 g	WC855	MBR 50 g	DS8861
Aluminum	11825905	60g	WC855	MBR 50g	D88861
Aluminum	11825905	60g	N/A	—	—

CHART 12. 30 MILLIMETER AMMUNITION

	PERFORMANCE		PACKING	
PRIMER	MAX. RANGE	VELOCITY	INNER PACK DWG. NO.	OUTER PACK DWG. NO.
Elec PA520	4000 M	805 m/s	11825891 11825892 10542565	11825890
Elec PA520	4000 M	805 m/s	11825891 11825892 10542565	11825890
Elec PA520	4000 M	805 m/s	11825891 11825892 10542565	11825890
Elec PA520	2000 M	—	11825891 11825892 10542565	19-48-4116/18
N/A	—	—	11825892 10542565	19-48-4116/18