

LOGISTICS

COMPLETE ROUND CHARTS

ARTILLERY AMMUNITION

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY MATERIEL COMMAND
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Logistics

COMPLETE ROUND CHARTS

ARTILLERY AMMUNITION

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*This pamphlet supersedes DARCOM-P 700-3-3, December 1983.

Fuzes reflected under fuze column are those assembled in the basic drawing; the SC 1305/30; or are preferred.

Section I

INTRODUCTION

1. Purpose. This pamphlet provides a source of information for personnel whose official duties involve the use of data concerning artillery ammunition. The information contained in these charts is constantly subject to change, and therefore, should be considered as reference material only.

2. Scope. This pamphlet has been prepared as the third of a series of complete round charts on conventional ammunition. It contains basic source data for the items of conventional artillery ammunition currently in the supply system. The data contained in this pamphlet cover all types of classification from "obsolete" through "standard A" as described in AR 71-6. Material formerly classified as "limited standard" has been redesignated "contingency as per MSR AR-71-6."

3. Abbreviations and symbols.

AEI	Applications Engineering Inspection
Alt	Alternate
Alum	Aluminum
AA	Antiaircraft
AMCTCM	Army Materiel Command Technical Committee Minutes (Item No.)
AP	Armor-Piercing
APC-T	Armor-Piercing Capped with Tracer
APDS-T	Armor-Piercing Discarding Sabot with Tracer
APERS	Antipersonnel
APERS-T	Antipersonnel with Tracer
AP-T	Armor-Piercing with Tracer
APFSD-T	Armor-Piercing Fin Stabilized Discarding Sabot with Tracer
Assy	Assembly
BD	Base Detonating
BE	Base Ejection
Blk Pwd }	Black Powder
BP }	
BPP	Black Powder Pellet
B'ster	Burster
Chg	Charge
Colrd	Colored
Comp	Composition
CP	Concrete Piercing
CS	A Tactical Riot Control Agent
Cstr	Canister
Ctg	Cartridge
C&T	Contingency and Training

Dwg	Drawing
Ef }	Effective
Eff }	
ET	Electric Time
Exp	Explosive
Expel	Expelling
Ext	Exterior
Flch	Flechette
FNH	Flashless Non Hygroscopic
Fps	Feet per second
FS	Sulfur Trioxide in Chlorosulfonic Acid
GB	Non-persistent, toxic (casualty) nerve agent
Gren	Grenade
H	Mustard Gas
HC	Hexachloroethane-Zinc Smoke Mixture
HD	Distilled Mustard Gas
HE	High Explosive
HEDP	High Explosive Dual Purpose
HERA	High Explosive, Rocket Assist
HT	Mustard-T Agent
HEAT	High Explosive Antitank
HEAT-T	High Explosive Antitank with Tracer
HEAT-T-MP	High Explosive Antitank with Tracer, Multipurpose
HEI-T	High Explosive Incendiary with Tracer
HEP	High Explosive Plastic
HEP-T	High Explosive Plastic with Tracer
HE-S	High Explosive-Spotting
HE-T	High Explosive with Tracer
Horiz	Horizontal
How	Howitzer
HVAPDS-T	Hypervelocity Armor-Piercing Discarding Sabot with Tracer
HVAP-T	Hypervelocity Armor-Piercing with Tracer
HVTP-T	Hypervelocity Target Practice with Tracer
Illum	Illuminant, Illuminating
Int	Interior
lb	Pound
L'cher	Launcher
LP	Limited Production
LVT (A)	Landing Vehicle Tracked (Armored)
M	Army Model of Item
Max	Maximum
MIL-STD	Military Standard
MK	Navy Model
Mod	Modification
Mor	Mortar
MT	Mechanical Time
Mtl	Metal
MTSQ	Mechanical Time and Superquick
MV	Muzzle Velocity

NChg	Normal Charge
OAC	Ordnance Ammunition Command (Army Ammunition Procurement and Supply Agency)
OBS	Obsolete
OTCM	Ordnance Technical Committee Minutes (Item No.)
P	Requires Removal of Supplementary Charge if Present
PD	Point Detonating, reference to fuzes
PD	Purchase Description, reference to specifications
Persis	Persistent
Perc	Percussion
PI	Point Initiating
PIBD	Point-Initiating, Base-Detonating
Pndg	Pending
Pot Nit	Potassium Nitrate
Proj	Projectile
Prop Chg	Propelling Charge
Prox}	
Prx}	Proximity
PWP	Plasticized White Phosphorous
RChg	Reduced Charge
SChg	Supercharge
SD	Self-destroy
Sec	Second
Ser	Series
Smk Pllt	Smoke Pellet
SP	Self-propelled
Spot	Spotting
Std	Standard
Supp	Supplementary
T	Time-Fuze
TG	Tear Gas
Tng	Training
TP	Target Practice
TP-T	Target Practice with Tracer
TPCSDS-T	Target Practice Cone Stabilized Discarding Sabot with Tracer
TSQ	Time and Superquick
Vert	Vertical
VT	Variable Time-Fuze
VX	Persistent Toxic (Casualty) Nerve Agent
w/	With
w/o	Without
WP	White Phosphorous
WP-T	White Phosphorous with Tracer

CHART 1. 40-MILLIMETER AMMUNITION

LINE NO.	CARTRIDGE								PROJECTILE							
	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG. NO.	SPEC. NO.	MODEL OF WEAPON	PROJECTILE ASSEMBLY DWG. NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG. NO.
										COM-POSITION	WT (LB/G)	DWG. NO.	KIND	WT (LB)	DWG. NO.	
1	CON	6418	M81 M81A1	AP-T	4.58	75-1-140	MIL-C-20566	Guns M2 M2A1 MK1 M1 Series	75-14-333	--	----	---	Tracer	0.02	---	75-2-311
2	STD	7517	M675	Canopy Red Smoke	0.75	122-3-119	MIL-C-60303	40 MM Gren Lechr M79	123-3-119	Red Smoke Comp	0.21 (96 g)	143-3-6	1st Fire	---	143-9-5	----
3	LCC-A	09766018	M676	Canopy Yellow Smoke	0.44	9229370	MIL-C-63113	40 MM Gren Lechr M79 M203	9229371	Yellow Smoke Comp	0.15 (59 g)	9220446	---	---	---	9227646
4	STD LCC-A	09766018	M680	Canopy White Smoke	0.48	9317512	MIL-C-63114	40 MM Gren Lechr M79 M203	9229371	White Smoke Comp	0.15 (59 g)	9220446	---	---	---	9227646
5	STD LCC-A	09766018	M682	Canopy Red Smoke	0.48	9235963	MIL-C-63115	40 MM Gren Lechr M79 M203	9229371	Red Smoke Comp	0.15 (60 g)	9220446	---	---	---	9227646
6	OBS	6418	M17 M17B1	Dummy	4.75	72-3-84	None	Guns M1 M2 MK1	72-3-84	--	----	---	---	---	---	72-3-81
7	STD	36641	M25	Dummy	4.75	72-3-101	None	Guns M1 M2 MK1	72-3-101	--	----	---	---	---	---	75-2-295
8	STD	9392	M381	HE	0.55	8835941	AE1-43	40 MM Gren Lechr M79 M203	8833701	Comp B	0.07 (32 g)	8833701	---	---	---	8833701
9	STD	5664	M385	HE	0.75	9241371	MIL-C-50243	MK14 MOD 1 MG Gren Lechr 40 MM M129	9241372	Comp A5	0.12 (54.5 g)	9241372	---	---	---	9239802
10	STD	8664	M384	HE	0.75	8886397	MIL-C-60943	MK19 MOD 1 MG 2 / Gren Lechr M129	8886395	Comp A5	0.12 (54.5 g)	8886400	---	---	---	8889307
11	CON	11756003	M386	HE	0.50	8835951	MIL-C-50543	40 MM Gren Lechr M79 & M203	8835945	Comp B	0.07 (32 g)	8834664	---	---	---	8834664
12	STD	08746022	M397	HE	0.51	8883461	MIL-C-48096	40 MM Gren Lechr M79 M203	8883462	Octol	0.07 (32 g)	8883464	---	---	---	8884633
13	STD	9392	M406	HE	0.55	8835950	MIL-C-60983	40 MM Gren Lechr M79 M203	8835947	Comp B	0.07 (32 g)	8833702	---	---	---	8833947

CHART 1. 40-MILLIMETER AMMUNITION

MATERIAL	FUZE					PROPELLING ASSEMBLAGE								PERFORMANCE		PACKING		
	BODY			DESIGNATION	TYPE	DWG. NO.	CARTRIDGE CASE		PROPELLANT			PRIMER			MAX. RANGE yd(m)	MV ft(mps)	INNER PACK DWG. NO.	OUTER PACK DWG. NO.
	MATERIAL FORM	DWG. NO.					DESIGNATION	DWG. NO.	COMPOSITION	NOM. WT (LB)	DWG. NO.	DESIGNATION	TYPE	DWG. NO.				
Steel	Bar	75-2-312	---	---	---	M25 M25B1	71-2-122 71-2-130	M1	0.65	75-1-140	M23A2 MK22 M38A1 M38B2	Perc	8831161 328952 Navy 8839375 8839375	9600 (8779m)	2870 (872mps)	76-1-1112	879646	
Alum.	Forged	122-3-104	---	---	---	---	---	BP	0.02 oz	122-3-119	Commercial	Hem- ming- ton 6b	---	---	---	122-3-128	122-3-129	
Alum.	Impact	9227646	---	---	---	M195	9207988	M9	0.01 oz	8844609	M42	Perc	8799925	Burst Hgt 91 Meters (QE-85')	250 (75mps)	9209204	9209205	
Alum.	Impact	9227646	---	---	---	M195	9207988	M9	330 mg	9276547	M42 FED 100	Perc	8799925	Burst Hgt 91 Meters (QE-85')	250 (75mps)	9209204	9209205	
Alum.	Impact	9227646	---	---	---	M195	9207988	M9	330 mg	9276547	M42 FED 100	Perc	8799925	Burst Hgt 91 Meters (QE-85')	250 (75mps)	9209204	9209205	
Brnz or Mnl. Iron	Cast	72-3-91	---	---	---	---	---	---	---	---	---	---	---	---	---	76-1-1112	879646	
Steel	Bar	75-2-295	M168	Dummy	72-5-9	M25B1 Modified	71-2-130	---	---	---	---	---	---	---	---	76-1-1112	879646	
Steel & Alum.	Wire	8835941	M552	PD	8847244	M118	8844610	M9	0.011 oz	8844609	M42	Perc	8799925	440 (369m)	250 (75mps)	8835105	8835104	
Steel 100%	Blank & Draw	9238907	M533	PD	8876192	M169	8886327	M2	0.01 oz	8886327	FED 215	Perc	8866712	2200 (1980m)	790 (240mps)	9251996	9251995	
Steel 100%	Plate	8899307	M533	PD	8876192	M169	8886327	M2	0.01	8886327	FED 215	Perc	8866712	2200 (1980m)	790 (240mps)	9251996	9251995	
Steel & Alum.	Wire	8840505	M551	PD	8862121	M118	8844610	M9	330 mg	8844609	M42 FED 100	Perc	8799925 9235729	440 (400m)	250 (75mps)	8835105	8835104	
Steel & Alum.	Wire	8864633	M536	PD	9232295	M118	8844610	M9	330 mg	9276547	M42 FED 100	Perc Perc	8799925 9235729	440 (400m)	250 (75mps)	8883462	8882361	
Steel & Alum.	Wire	8833695	M551	PD	8862121	M118	8844610	M9	0.011 oz	8844609	M42 FED 100	Perc	9235729	440 (400m)	250 (75mps)	8835105	8835104	

CHART 1. 40-MILLIMETER AMMUNITION
(Continued)

CARTRIDGE									PROJECTILE							
LINE NO.	TYPE CLASSIFICATION	NSR, ANTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG. NO.	SPEC. NO.	MODEL OF WEAPON	PROJECTILE ASSEMBLY DWG. NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG. NO.
										COMPOSITION	WT (LB/G)	DWG. NO.	KIND	WT (LB)	DWG. NO.	
14	CON	11756003	M441	HE	0.303	9884459	AE1-56	40 MM Gren Lehr M79 M203	---	Comp B	0.07 (32 g)	---	---	---	---	---
15	CON	03736153	M684	HE	0.74	9247850	MIL-C-50466	40 MM Gren Lehr M129	9247851	Comp A5	0.12 (54.5 g)	9247851	---	---	---	5899307
16	STD	3664	M430	HE DP	0.75	9205427	MIL-C-50863	MK19 Mod 1 MG 2/ Lehr M129	9205428	Comp A5	0.084 (38 g)	---	---	---	---	9203427
17	STD	3306	M433	HEDP	0.5	5886371	MIL-C-50872	40 MM Gren Lehr M79 & M203	8886372	Comp A5	0.1 (45 g)	9276547	---	---	---	5886375 5886373
18	CON	11756003	MK2	HEI-T HE-T	4.75	394620	MIL-C-18751	Guns M1 M2 MK1	Navy 394620	TNT	0.14	Navy 394620	Tracer MK11 & MODS (SD)	---	Navy 394440	325330
19	CON	11756003	MK2	HE-T	4.75	75-1-166	MIL-C-18751	Guns M1 M2 MK1	75-14-403	Tetryl	0.14	75-14-403	M3 (SD)	---	75-17-7	75-2-295
20	CON	11756003	MK2	HE-T	4.75	75-1-166	MIL-C-18751	Guns M1 M2 MK1	Navy 394620	TNT	0.14	394620	MK11 MK11 Mod 2 M3A1	---	Navy 394440 423429 11751175	75-2-295
21	CON	11756003	M576	Multiple Proj. (APERS)	0.26	10542398	MIL-C-60632	40 MM Gren Lehr M79 M203	10542398	--	----	---	---	---	---	----
22	STD LCC-A	09766015	M661	Green Star Parachute	0.44	9243881	MIL-C-50510	40 MM Gren Lehr M79 M203	9243909	Illum.	0.2 (85 g)	9244310	---	---	---	9243909
23	STD LCC-A	09766015	M662	Red Star Parachute	0.44	9243881	MIL-C-50510	40 MM Gren Lehr M79 M203	9243909	Illum	0.2 (85 g)	9244310	---	---	---	9243909
24	STD	37654	M382	Practice	0.55	3944607	MIL-C-60944	40 MM Gren Lehr M79 M203	8844608	Yellow Dye	0.01 (5 g)	5544608	---	---	---	5835494
25	STD	2177	M385	Practice	0.75	3886326	MIL-C-60944	MK19 Mod 1 MG 2/ 40 MM Gren Lehr M129	8866714	--	----	---	---	---	---	5866714
26	STD	2681	M407A1	Practice	0.55	3835952	MIL-C-60996	40 MM Gren Lehr M79 M203	5863605	Yellow Dye	0.01 (5 g)	5862470	---	---	---	5863605

CHART 1. 40-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLY							PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG. NO.	DESIGNATION	TYPE	DWG. NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX. RANGE yd(m)	MV (ft/mps)	INNER PACK DWG. NO.	OUTER PACK DWG. NO.	
						DESIGNATION	DWG. NO.	COMPOSITION	NOM. WT (LB)	DWG. NO.	DESIGNATION	TYPE					DWG. NO.
Steel & Alum	Wire	---	M552	PD	---	M118	8844610	M9	330 mg	9276547	M42	Perc	8799925 9235729	440 (400m)	250 (75mps)	8835105	8835104
Steel 1030	Impact	8899308	M396	VT	11714155	M169	8886327	M2	0.01 oz	8886327	FED 215	Perc	8866712	2200 (1980m)	790 (240mps)	9251996	9251995
Steel	Blank & Draw	9205430	M549	PI BD	9205399	M169	8886327	M2	4.6 grams	8886327	FED 215	Perc	8866712	2200 (1980m)	790 (240mps)	9251996	9251995
Steel & Alum	Blank & Draw	8886373	M550	PI BD	8886349	M118	8844610	M9	330 mg	9276547	M42	Perc	8799925	440 (400m)	250 (75mps)	8835105	8835104
Steel	Bar	828526	MK27	PD	Navy 300423	MK1 MK2 MK3	294432 329377 330825	M1	0.72	394620	MK22 M38A1 M38B2	Perc	Navy 328952 389316	4300 (3870m) 1/	2890 (867mps)	Navy 330741	8796464
Steel	Bar	75-2-295	PD-MK27 M3 or M3A1	PD	75-2-172	M25 M25B1	71-2-122 71-2-130	M1	0.72	75-1-166	M38A1 M38B2 MK22	Perc	8839379 8839378 328952 Navy	5700 (5130m) 1/	2700 (810mps)	76-1-1112	8796464
Steel	Bar	75-2-298	MK27 M71	PD	Navy 300423 71-2-122	M25 M25B1	71-2-122 71-2-130	M1	0.72	75-1-166	M38A1 M38B2 MK22	Perc	8839379 8839378 328952 Navy	4300 (3870m) 1/	2870 (872mps)	76-1-1112	8796464
Polyethylene	Molded	10542397	---	---	---	M199	10542395	M2	0.06 oz	10542391	M42	Perc	10542413	33 (30m)	385 (269mps)	8835105	8835104
Alum	Impact	9207993	---	---	---	M195	9207998	M9	330 mg	9276547	M42 FED 100	Perc	9235929	Burst Hgt 168 Meters QE-55"	250 (75mps)	9209204	9209205
Alum	Impact	9207993	---	---	---	M195	9207998	M9	330 mg	9276547	M42 FED 100	Perc	9235929	Burst Hgt 168 Meters QE-55"	250 (75mps)	9209204	9209205
Steel	Blank	8886325	M552	PD	8887234	M118	8844610	M9	0.011 oz	8844609	M42	Perc	8799925	440 (400m)	250 (75mps)	8835105	8835104
Alum	Bar	8886715	---	---	---	M169	8886327	M2	0.01	8886327	FED 215	Perc	8866712	2200 (1980m)	790 (240mps)	9251996	9251995
Steel	Molded	8886305	M551	PD	88862121	M118	8844610	M9	0.011 oz	8844609	M42 FED 100	Perc	8799925 9235729	440 (400m)	250 (75mps)	8835105	8835104

CHART 1. 40-MILLIMETER AMMUNITION
(Continued)

LINE NO.	CARTRIDGE									PROJECTILE						
	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG. NO.	SPEC. NO.	MODEL OF WEAPON	PROJEC-TILE ASSEMBLY DWG. NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG. NO.
										COM-POSITION	WT (LB)	DWG. NO.	KIND	WT (LB)	DWG. NO.	
27	LCC-A	05786002	M781	Practice	205 g	9322240	MIL-C-63239	40 MM Gren Lehr M79 M203	9322237	Orange Dye	---	---	---	---	---	9322237
28	STD	7517	M674	Rif Control CS	0.75	122-3-101	MIL-C-60303	40 MM Gren Lehr M79	123-3-101	CS (MX)	0.21 (96 g)	143-14-7	1st Fire	---	143-9-3	---
29	STD LCC-A	09766018	M713	Ground Marker Red Smoke	0.49	9323251	MIL-C-63129	40 MM Gren Lehr M79 M203	9323252	Red Smoke Comp	0.165 (75 g)	9323277	---	---	---	9323273
30	STD LCC-A	09766018	M715	Ground Marker Green Smoke	0.49	9323261	MIL-C-63130	40 MM Gren Lehr M79 M203	9323262	Green Smoke Comp	0.165 (75 g)	9323274	---	---	---	9323273
31	STD LCC-A	09766018	M716	Ground Marker Yellow Smoke	0.49	9323265	MIL-C-63131	40 MM Gren Lehr M79 M203	9323266	Yellow Smoke Comp	0.165 (75 g)	9323276	---	---	---	9323273
32	STD	8387	M651	Tactical CS	10.0	122-2-6	EA-PD-196-131-835	40 MM Gren Lehr M79 M202	122-2-6	CS Pyro	0.11 (59 g)	122-2-6	---	---	---	122-2-6
33	C&T	37119	M91	TP-T	4.72	75-1-173	None	Guns M1 M2 MK1	75-14-433	---	---	---	Tracer	0.02	---	75-1-329
34	CON	11756003	M583A1	White Star Para	0.439	9243881	MIL-C-50510	40 MM Gren Lehr M79 M203	9243908	Illum	0.21 (96 g)	9244310	---	---	---	9243909
35	CON	11756003	M585	White Star Cluster	0.410	9243880	MIL-C-50509	40 MM Gren Lehr M79 M203	9243884	Illum	0.22 (100 g)	9243901	---	---	---	92119189 9213584
36	STD	05826003	M811 3	HE-1	5.5	12600009	MIL-C-63553	M247 DIVADS	12600052	Octol NNL	0.165 g	---	Incend	---	---	1260052
37	STD	05826003	M813 3	TP	5.5	12600003	MIL-C-63551	M247 DIVADS	12600058	Inert	---	---	---	---	---	1260028
38	STD	05826003	M822 3	HE	5.5	12600002	MIL-C-63556	M247 DIVADS	12600022	Octol	120 g	12600022	Tungsten Balls	---	---	12600022
39	STD	05826003	M851 3	Dummy	5.5	12600005	MIL-C-63562	M247 DIVADS	12600005	---	---	---	---	---	---	12600005

1/Range to self-destruct
2/40mm Machinegun
3/Sgt York

CHART 1. 40-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG. NO.	DESIGNATION	TYPE	DWG. NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX. RANGE yd(m)	MV fps(mps)	INNER PACK DWG. NO.	OUTER PACK DWG. NO.	
						DESIGNATION	DWG. NO.	COMPOSITION	NOM. WT (LB)	DWG. NO.	DESIGNATION	TYPE					DWG. NO.
Plastic Alum Steel	---	9322237	---	---	---	M211	9322235	M9	340 mg	---	No. 1-172 Commercial	35 Cal Blank Cart.	9322235	440 (400m)	250 (75 mps)	9325895 or 9209204	9325896 or 9209205
Alum	Forged	122-3-104	---	---	---	---	---	BP	0.02 oz	122-3-101	Commercial	Remington 68	---	---	---	122-3-128	122-3-129
Alum	Impact	9235731	M730	Pyro	9323255	M115	8644610	M9	330 mg	9276547	M42 FED 100	Perc	9235929	440 (400m)	250 (75 mps)	9209204	9209205
Alum	Impact	9235731	M730	Pyro	9323255	M115	8644610	M9	330 mg	9276547	M42 FED 100	Perc	9235929	440 (400m)	250 (75 mps)	9209204	9209205
Alum	Impact	9235731	M730	Pyro	9323255	M115	8644610	M9	330 mg	9276547	M42 FED 100	Perc	9235929	440 (400m)	250 (75 mps)	9209204	9209205
Alum	Mach	122-2-4	M551E1	PD	9219774	M115	122-2-35	M9	---	8844609	M42	Perc	8799925	440 (400m)	245	---	---
Steel	Bar	72-2-325	M69	Dummy	72-5-5	M25 M25B1	71-2-122 71-2-130	M1	0.72	73-1-173	M38A1 M38B2 Mk22	Perc	8839375 8839378 328952 Navy	1100 (9900m)	2870 (947 mps)	Navy 880741	8790464
Alum	Impact	9207995	---	---	---	M195	9207985	M9	---	9207988	Fed 100 M42	Perc Perc	9235929 8799925	Burst Ht 166 Meters QE-85*	---	9209204	9209205
Alum	Impact or Bar	9207995	---	---	---	M195	9207985	M9	---	9207988	FED 100 M42	Perc Perc	9235929 8799925	Burst Ht 166 Meters QE-85*	---	9209204	9209205
Alloy Steel	Bar	1200052	M761	PD	28117739	L70	12600026	1030	515 g	12600033	MK22	Perc	12600026	7 km	1030 mps	Clip 4 Rd M6 12619467	12619468
Carbon Steel	Bar	1200025	---	---	---	L70	12600026	1030	515 g	12600033	MK22	Perc	12600026	7 km	1030 mps	Clip 4 Rd M6 12619467	12619468
Alloy Steel	Bar	12600022	M760	Prox	12705006	L70	12600026	1100	515 g	12600036	MK22	Perc	---	7 km	1100 mps	Clip 4 Rd M6 12619467	12619468
Alum Alloy	Temper T651	QQ-22519	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12619468

CHART 2. 57-MILLIMETER AMMUNITION

LINE NO.	CARTRIDGE								PROJECTILE							METAL PARTS ASSEMBLY DWG NO.
	TYPE CLASSIFICATION	MSR. AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJEC-TILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			
										COM-POSITION	WT (LB)	DWG NO	KIND	WT (LB)	DWG NO.	
1	LP	7875	T25E5	Cstr	5.43	9215708	MIL-C-48050	Rifle M18A1 M18	Cstr 9215709	Steel Slug	1.8	9215715	---	---	---	9215709
2	OBS	35983	M22	Dummy	12.56	72-3-93	None	Gun M1	72-3-93	---	---	---	---	---	---	---
3	CON	37119	M306A1 1/	HE	5.46	75-1-216 9215030	MIL-C-1391 MIL-C-60464	Rifle M18A1 M18	75-14-488 9215029	Comp B	0.55	75-14-488 9215029	---	---	---	75-2-359 10535913
4	CON	37119	M307A1 2/	HEAT	5.43	75-1-215	MIL-C-1387	Rifle M18A1 M18	75-14-472	Comp B 3/	0.40	75-14-472	Tetryl Booster	0.015	75-14-472 75-1-215	75-2-353
5	OBS	35983	M303	HE-T	12.88	75-1-188	PXS-1104	Gun M1	75-14-458	TNT	0.44	75-14-458	Red Tracer	0.006	---	75-2-347
6	CON	37119	M308A1 2/	Smoke	5.43	9215427	MIL-C-12825	Rifle M18A1 M18	9233510	WP	0.37	75-1-219	Burster M21	0.19 oz	9238792 9215427	75-2-496 10543043
7	CON	37119	M306A1	TP	5.4	75-1-252	MIL-C-1386	Rifle M18A1 M18	75-14-587	Inert Mat'l	0.45	75-14-587	Black Powder Pellet	0.07	75-1-252	75-2-359

1/ M306 - differs in the design of the crimping groove and in the projectile filler of east TNT
 2/ M307, M308 - differ in the use of a paper-lined cartridge case, M30 and percussion primer, M46
 3/ 50 - 50 pentolite alt.

CHART 2. 57-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATE- RIAL	MATE- RIAL FORM	DWG. NO.	DESIG- NATION	TYPE	DWG. NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE yd(m)	MV (ps/mps)	INNER PACK DWG. NO.	OUTER PACK DWG. NO.	
						DESIG- NATION	DWG. NO.	COM- POST- TION	NOM WT (LB)	DWG. NO.	DESIG- NATION	TYPE					DWG. NO.
Carbon Steel	Tube	9215712	---	---	---	M30A1B1 M30A1B2	10535911	M10	1	9215708	M60A1	Perc	8839466	775 (160m)	1200 (396mps)	9216239	9216240
Steel	---	72-3-93	---	Dummy	---	M23A2B1	72-3-93	--	---	---	---	--	---	---	---	76-1-603	76-1-1262
Steel	Forged	75-2-491 10535914	M503A1 M503 Series M503A2	PD	73-2-320	M30A1B1	10535911	M10	1	75-1-216 9215030	M60A1 M60 M46	Perc	8839466 8839465	4508 (4057m)	1200 (396mps)	76-1-807	8796471
Steel	Forged	75-2-334	M90A1 M90	PI	73-2-236	M30A1B1	10535911	M10	1	75-1-215	M60A1 M60	Perc	8839466	4860 (4374m)	1200 (396mps)	76-1-806	8796691
Steel	Bar	75-2-347	M86 M85	PD	73-2-221 73-2-215	M23A2	71-2-120	FNH Powder	2.28	75-1-188	M1B1A2 M1A2 M1B2	Perc	8839474 8839453 8838167	3800 (7920m)	2720 (898mps)	76-1-942	76-1-945
Steel	Forged	75-2-364 10543046	M503 M503 Series	PD	73-2-320 9215031	M30A1B1	10535911	M10	1	75-1-219	M60A1	Perc	8839466	4508 (4057m)	1200 (396mps)	8796521	8796471
Steel	Forged	75-2-431	M503A1 M503	PD	73-2-320	M30A1B1	10535911	M10	1	75-1-252	M60A1	Perc	8839466	4508 (4057m)	1200 (396mps)	9215018	8796471

CHART 3. 60-MILLIMETER MORTAR AMMUNITION

LINE NO.	CARTRIDGE									PROJECTILE						
	TYPE CLASSIFICATION	MSR. AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT. (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF MORTAR	LOADING ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	OBS	11756003	M49A2	HE	3.07	75-1-82	MIL-S-1436	M2 M19 M224	75-14-257	Flake TNT	0.34	75-14-257	--	--	--	75-2-288
2	CON 4/	6632 6385	M49A3 (M49A2E1)	HE	3.07	9207925	PA-PD-2701	M2 M19 M224	9207926	Comp B	0.42	9207926	--	--	--	9207926 10535905
3	CON	11756003	M49A4 (M49A2E2)	HE	3.25	9220179	MIL-C-14750	M2 M19 M224	9207926	Comp B	0.42	9207926	--	--	--	9207926 10535905
4	STD	01786006	M720	HE	3.75	9275526	MIL-C-48368	M2 M19 M224	75-14-350	Comp B	0.42	9207926	--	--	--	9207926 10535905
5	STD CON CON	8346 37115 4660	M83A3 M83A2 M83A1	Illum	4.15	9207516 75-1-143	MIL-C-3972	M2 M19 M224	9207517 75-14-356	Illum	0.49	9207516	1st Fire	0.035	9207516 75-2-272	9207530 75-2-547
6	CON	4660	M302	Smoke	3.98	9205340	MIL-C-60317	M2 M19 M224	9205339	WP	0.75	9205339	B'str Pro: M19	0.025	9205340	10534894
7	STD	8346	M302A1 (M302E1)	Smoke	4.10	9215575	MIL-C-60317	M2 M19 M224	9205339	WP	0.75	9205339	B'str Pro: M19	0.025	9205340	10534894
8	CON	37115	M69	Tag	4.43	9222944	OAC-PD-58	M2 M19 M224	9222944	-- Invert	--	--	--	--	--	9222944
9	OBS 6/ C & T	37344 6632 6385	M50A2 M50A3	TP TP	3.05 3.15	75-1-83 9220383	MIL-S-1436 PA-PD-2904	M2 M19 M224	75-14-238 9220384	Cast Filler C Invert	0.37 0.29	75-14-238 9220384	BPF BPF	0.05 0.05	75-1-83 7549196	75-2-288 9207926
10	STD LCC-A	04830005	M50A5	HE	3.90	935440	MIL-C-64037	M224	9207926	Comp B	0.78	9207926	--	--	--	9207926 10535905

1/ Fuze, Series, PD, M52, M53, M82 - (Fuze PD, M52 Series obsolete - ANCTC 6558).
 2/ Issued separately.
 3/ M4 Ignition Cartridge contains a primer in its base and may be issued in lieu of M5A1 Ignition Cartridge.

4/ STD B for Marine Corps use AMCTC-6385.
 5/ M717 Fuze Permanently Suspended except for Emergency Combat.
 6/ STD A for Marine Corps use ANCTC-6385.
 7/ OR M2 MOD.

CHART 3. 60-MILLIMETER MORTAR AMMUNITION

BODY					FUZE			PROPELLING ASSEMBLAGE					PERFORMANCE		PACKING			
BODY			FIN		DESIG-NATION	TYPE	DWG NO.	PROPELLANT INCREMENT			IGNITION CARTRIDGE		PRI PRIMER		MAX. RANGE yd (m)	MV (fps (mps))	INNER PACK DWC NO.	OUTER PACK DWC NO.
MATERIAL	MATERIAL FORM	DWG NO.	DESIG-NATION	DWG NO.				DESIG-NATION AND NO. USED	(GRAINS) & TYPE	DWG NO.	DESIG-NATION NO. AND DWG	TYPE	DWG NO.					
Steel	Forg	75-2-539	M2	9207612	1/ M525 Series	PD	8800197	M3A1 3/	0.021 M8	9205610	M5A2 9242127	M32 Perc	8880637	1975	515	7549170	8796472	
PMI Steel	Cast Forg	9207926 10535906 10535924	M2	9207612	1/ M525 M525A1	PD	8800197	M3A1 3/	0.021 M8	9205610	M5A2 8880647 9242127	M32 Perc	8880637	1975	515	7549170	8796472	
PMI Steel	Cast Forg	9207926 10535906 10535924	M2 & Extension	9207612 9215574	1/ M525 Series M717/5	PD	8800197 9220860	M181 3/	0.026 M8	9216090	M5A2 9242127	M32 Perc	8880637	1985	520	9220014	9220015	
Alloy Steel	Cast Forg	9236376	M27	11751196	M734	Multi-option	11723106	M204	125.0 M10	9312695	M702 9280553	M35 Perc	9285481	3490 m	810	9252724	9317915	
Steel Tubing	Forg	9207531 75-2-316	M2	9207612	M65A1	Time	9207565 73-3-177	M182 3/ M3A1 M3A1	0.021 M8	9216363 9205610	M5A2 9242127	M32 Perc	8880637	1100	434	9242065	9242066	
Steel	Forg	10534895	M2	9207612	M527 Series	PD	8800461	M3A1 3/	0.021 M8	9205610	M5A2 9242127	M32 Perc	8880637	1610	439	9205613	8796473	
Steel	Forg	10534895	M2 & Extension	9207612 9215574	M527B1 Series	PD	8800461	M181 4/	0.026 M8	9216090	M5A2 9242127	M32 Perc	8880637	1582	439	9215576	9215577	
Iron	Cast	75-2-303	M5 7/	2- 9222945	--	--	--	--	--	--	2/ 3 M5A2 9242127	2 M32 Perc	8880637	235 193 m	152.5 46.4		9223906	
Steel PMI	Forg Cast	75-2-285 9207926	M2 M2 & Extension	75-2-285 9215574	1- M525 Series	PD	75-1-161 8800197	M3A1 3/ M181 3/	0.021 M8 0.026 M8	9205610 9216090	M5A2 9242127	M32 Perc	8880637	1975 1963	515 520	7549170 9220014	8796472 9220015	
Alloy Steel	Cast Forg	9236375-2	M27	11751196	M955	PD	9255255	M204	125.0 M10	9312695	M702 9280553	M35 Perc	9285481	--	--	9260110	9280105 9280109	

- Cal 60mm HE, Mines not to be fired in Mortars M2 or M19.
NOTE: 60mm Sabot Training is listed on page 15.

CHART 4. 75-MILLIMETER AMMUNITION

LINE NO.	CARTRIDGE									PROJECTILE						
	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	CON	34566	M61A1	APC-T	19.91	75-1-103	MIL-R-20520	Gun M3	75-14-268	Exp D	0.144	75-14-268	Tracer M5A2B1	0.10	8796866	75-2-291
2	OBS	31599	M72	AP-T	18.84	75-1-127	PXS-907	Gun M3 M6 M17	75-14-299	-	-	-	Tracer	0.10	75-14-299	75-2-305
3	OBS	36608	M338A1 M338A2	AP-T	18.26	75-1-312	PA-PD-57	Gun M3 M6	75-2-494	-	-	-	Tracer M5A2B1	0.10	8796866	75-2-494
4	OBS	37119	M2A2	Dummy	19.2	72-3-59	-	How M1A1 M1A1C M3	72-3-59	-	-	-	-	-	-	-
5	OBS	11756003	M7	Dummy	20.38	72-3-65	-	Gun M3	72-3-65	-	-	-	-	-	-	-
6	OBS	11756003	M16	Dummy	18.75	72-3-82	-	Gun M3 How M1A1	72-3-82	-	-	-	-	-	-	-
7	OBS	37119	M19B1 M19	Dummy	18.24	72-3-89	-	How M1A1	72-3-89	-	-	-	-	-	-	-
8	OBS	11756003	M48	HE	19.48	75-1-78	MIL-S-20532	Gun M3 M6 M17	75-14-198	TNT	1.49	75-14-198	-	-	-	75-2-269
9	OBS	11756003	M48	HE	18.75 18.24	75-1-79	MIL-S-20532	Gun M3 M6 M17	75-14-198	TNT 50-50 Amato ^l	1.49	75-14-198	-	-	-	75-2-269
10	OBS	11756003	M48	HE	18.18	75-1-80	MIL-S-20532	Gun M3 M6 M17	75-14-198	TNT	1.49	75-14-198	-	-	-	75-2-269
11	CON	6418	M48	HE	16.57	75-1-247	MIL-S-20532	How M1A1	75-14-445	TNT	1.04	75-14-445	Suppl Chg TNT	0.365	5797090	75-2-269

CHART 4. 75-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWC NO.	DESIGNATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE YD (m)	MV FPS (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.	
						DESIGNATION	DWG NO.	COMPOSITION	NOM WT (LB)	DWG NO.	DESIGNATION	TYPE					DWG NO.
Steel	Bar or Forged	75-2-328	M66A2	BD	73-2-178	M18 M18B1	71-2-71 71-2-150	M1	2.0	75-1-103	M31B2	Perc	8839469	1,230 (1,124 m)	2,030 (618 mps)	76-1-1124	76-1-522
Steel	Bar	75-2-305	-	-	-	M18	71-2-71	M1	1.9	75-1-127	M31A2	Perc	8839467	10,600 (9,692 m)	2,030 (618 mps)	76-1-376	76-1-376
Steel	Bar	75-2-495	-	-	-	M18 M18B1	71-2-71 71-2-150	M17	2.10	75-1-312	M31A2	Perc	8839467	12,255 (11,205 m)	2,120 (646 mps)	76-1-1398	76-1-1399
Bronze	Cast	72-3-69	M1907M	Inert	73-3-114	-	-	-	-	-	-	-	-	-	-	76-1-266	76-1-522
Bronze	Cast	72-3-66	M1907M	Inert	73-3-114	-	-	-	-	-	-	-	-	-	-	76-1-1259	76-1-1125
Bronze	Cast	72-3-83	M59	Dummy	72-5-5	-	-	-	-	-	-	-	-	-	-	76-1-603	76-1-522
Iron & Bronze	Cast	72-3-90	M59	Dummy	72-5-5	-	-	-	-	-	-	-	-	-	-	76-1-266	76-1-522
Steel	Forged	75-20-77	M51A5 M51A4	PD	8796862 73-2-145	M18 M18B1	71-2-71 71-2-150	M1	1.93 S Chg	75-1-78	M31B2	Perc	8839469	14,000 (12,801 m)	1,950 (594 mps)	76-1-1120	76-1-1229
Steel	Forged	75-20-77	M51A5 M51A4 4/	PD PDCP	8796862 73-2-214	M5A1 M5A1B1	71-2-91	M1	1.15 N Chg	75-1-79	M1 M1A1 M1A2 M1B1A2 M64	Perc	74-2-63 8839474 8839461 74-2-63	11,285 (10,319 m)	1,250 (381 mps)	76-1-1120	76-1-1229
Steel	Forged	75-20-77	M51A5 4/	PD	8796862	M18 M18B1	71-2-71 71-2-150	M1	0.59 R Chg	75-1-80	M22A3	Perc	8839458	6,990 (6,391 m)	950 (289 mps)	76-1-1120	76-1-1229
Steel	Forged	75-20-77	M513	Prox 1/	1310500	M5A1	71-2-91	M1	1.06	8865404	M1B1A2	Perc	8839474	9,620 (7,916 m)	1,250 (381 mps)	76-1-1124	76-1-1231

CHART 4. 75-MILLIMETER AMMUNITION
(Continued)

LINE NO.	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	CARTRIDGE					PROJECTILE						
					NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COMPOSITION	WT (LB)	DWC NO.	KIND	WT (LB)	DWG NO.	
12	CON	6416	M46	HE	18.30	75-1-59	MIL-S-20532	How M1A1	75-14-196	TNT 50-50 Amatol	1.04 1.36	75-14-196	-	-	-	75-2-269
13	CON	6418	M46	HE	18.30	75-1-183	MIL-S-20532	How M1A1	75-14-445	TNT	1.49	75-14-445	Suppl Chg	0.365	8797090	75-2-269
14	CON	6418	M48	HE	18.22	75-1-206	MIL-S-20532	How M1A1 M3	75-14-445	TNT	1.49	75-14-445	Suppl Chg	0.365	8797090	75-2-269
15	OBS	11756003	M309A1 M309	HE	22.37	75-1-221	MIL-C-1391	Rifle M20	75-14-498 8826754	TNT	1.49	75-14-498	-	-	-	75-2-365
16	OBS	37119	M66	HEAT-T	15.66	75-1-141	MIL-S-10363	How M1A1 M3	75-14-499	Comp B	1.0	75-14-499	-	-	-	75-2-314
17	OBS	11756003	M310A1 M310 S/	HEAT-T	21.06	75-1-222	MIL-C-1388	Rifle M20	75-14-499	Comp B Pentolite	1.0	75-14-499	Tracer M5	0.10	8853694	75-2-366
18	OBS	11756003	M349	HEP-T	16.70	75-1-326	MIL-C-12838	Rifle M20	75-14-682	Comp A-3	2.55	75-1-682	Tracer M5	0.10	8853694	75-2-535
19	OBS	37344	M64	Smoke	19.00	75-1-114	MIL-S-3139	How M1A1 M1A1C M3	75-14-276	WP	1.34	75-14-276	Burster M6	0.11	73-1-224	75-2-294
20	OBS	11756003	M311A1 M311	Smoke	23.20	75-1-225	MIL-C-12825	Rifle M20	75-14-503	WP	1.35	75-14-503	Burster Initiator Chg	0.07 0.11	73-1-224 73-1-184	75-2-371
21	OBS	11756003	M309A1 M309	TP	22.37	75-1-251	MIL-C-1386	Rifle M20	75-14-586	Inert Mat'l	1.27	75-41-586	BP Pellets	0.22	75-1-251	75-2-365

- 1/ May be issued with closing plug and with or without supplementary charge (to be removed if proximity fuze is used).
- 2/ 2800 yards with TNT; 2825 yards with Comp B.
- 3/ Cartridge 75MM: TP W/F PD Obsolete.
- 4/ Fuzes, PD, M51A4 and M51A5 restricted to Combat Emergency Use Only - TB 9-1300-385 - except for 76MM and 90MM Guns.
- 5/ Cartridge M310 Fuze with M62A1 obsolete.

CHART 4. 75-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE								PERFORMANCE		PACKING	
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER			MAX RANGE YD (m)	MV fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
						DESIGNATION	DWG NO.	COMPOSITION	NOM WT (LB)	DWG NO.	DESIGNATION	TYPE	DWG NO.				
Steel	Forged	75-2-77	M557	PD	8863535	M5A1	71-2-91	M1	1.06	8865404	M1B1A2 M1	Perc	8839474	9,620 (7,916 m)	1,250 (381 mps)	76-1-1124	76-1-662
Steel	Forged	75-20-77	M557	PD	8863535	M5A1	71-2-91	M1	1.06	8865404	M1B1A2 M1	Perc	8839474	9,620 (7,916 m)	1,250 (381 mps)	76-1-1124	76-1-662
Steel	Forged	75-20-77	M520 Series	MTSQ	8594044	M5A1	71-2-91	M1	0.95	8865404	M64	Perc	8839461 74-2-63	9,620 (7,916 m)	1,250 (381 mps)	76-1-1124	76-1-1231
Steel	Forged	75-2-551	M557	PD	8863535	M31A1 M31	7548024	M10	3.30	75-1-221	M47 M47B2	Perc	8839455 8839460	6,960 (6,364 m)	990 (271 mps)	76-1-1123	76-1-835
Steel	Forged	75-20-93	M91A2	BD	8837306	M5A1	71-2-91	M2	0.41	75-1-141	M23A2 M1	Perc	8831161 74-2-63	6,540 (5,980 m)	1,000 (304 mps)	76-1-603	P80613
Steel	Forged	75-20-93	M91A1 M62A1	BD BD	8837306 8886414	M31A1 M31	7548024	M10	3.19	75-1-222	M47 M47B2	Perc	8839455 8839460	7,300 (6,675 m)	1,000 (304 mps)	76-1-10830	76-1-835
Steel	Forged	75-2-336	M91A1	BD	8837306	M31A1 M31	7548024	M10	3.36	75-1-328	M47B2 M47	Perc	8839460 8839455	7,180 (6,565 m)	1,400 (427 mps)	76-1-1411	76-1-1410
Steel	Forged	75-2-294	M48A3	PD	8798219	M5A1	71-2-91	M1	1.06	71-9-126	M64 M1	Perc	8839461 74-2-63	9,620 (7,916 m)	1,250 (381 mps)	76-1-893	76-1-662
Steel	Forged	75-2-371	M48A3	PD	8798219	M31A1 M31	7548024	M10	3.42	75-1-225	M47B2 M47	Perc	8839460 8839455	6,960 (6,364 m)	990 (271 mps)	76-1-883	76-1-835
Steel	Forged	75-2-551	M75	Dummy	8796863	M31	7548024	M10	3.30	75-1-221	M47B2 M47	Perc	8839460 8839455	6,960 (6,364 m)	990 (271 mps)	76-1-828	76-1-835

CHART 5. 75-MILLIMETER AMMUNITION

CARTRIDGE										PROJECTILE						
TYPE CLASSIFICATION	MSR. AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.	
									COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.		
1	OBS	11756003	M339	AP-T	27.32	8886612	MIL-C-46523	Gun M32 M48	8886612	-	-	-	Tracer M13	0.10	8796866	10520209
2	OBS	36767	M62A1	APC-T	25.15	75-1-150	MIL-C-20520	Gun M1A1C M1A2	75-14-269	Explosive D	0.144	75-14-269	-	-	-	75-2-292
3	OBS	11756003	M363	Centr	27.18	9204458	MIL-C-60310	Gun M32 M48	10534422	Steel Balls	9.00	10534425	-	-	-	10534423
4	STD OBS	36841 36767	M20 M20B1	Dummy	24.8	72-3-87		Gun M1A2 M1A2	72-3-87	-	-	-	-	-	-	72-3-87
5	OBS STD	11756003 8267	M352 M352A1	HE	25.52	75-1-293	MIL-C-13140	Gun M32 M48	75-14-635	Comp B	1.46	75-14-635	-	-	-	75-2-434
6	OBS	36767	M42A1	HE	22.11	75-1-149	MIL-S-20532	Gun M1A1C M1A2	75-14-170	Comp B	0.90	75-14-170	Booster M21A4	0.048	8798123	75-18-33
7	OBS	11756003	M496	HEAT-T	25.83	8848863	MIL-C-46503	Gun M32 M48	8848862	Comp B	1.10	8848862	Tracer M13	0.036	8860550	8597471
8	OBS STD	11756003 36841	M331A1 M331A2	HVAP-DS-T	20.7	75-1-308	MIL-C-12579	Gun M32 M48	75-14-648	-	-	-	Tracer M5 M5A3	0.10	75-17-13	75-2-475
9	OBS	36767	M98A1	HVAP-T	18.39	75-1-220	MIL-C-20608	Gun M1A1C M1A2	75-2-361	-	-	-	Tracer M5A1B1	0.10	8796866	75-2-361
10	OBS	36767	M315A1	HVTP-T	18.26	75-1-249	MIL-C-20608	Gun M1A1C M1A2	75-2-390	-	-	-	Tracer M5A1B1	0.10	8796866	75-2-390
11	CON	8267	M319	HVAP-T	19.04	75-1-295	MIL-C-20608	Gun M32 M48	75-2-440	-	-	-	Tracer M5A1B1 M5A1	0.10	8796866	75-2-440
12	OBS	36767	M312B1 M312B2	Smoke	22.66 1/ 22.31 2/	75-1-227 1/ 75-1-253 2/	MIL-S-3139	Gun M1A2 M1A1C	75-14-607 1/ 75-14-500 2/	WP	0.78 1/ 0.73 2/	75-14-607 1/ 75-14-500 2/	Burster Chg. M23	0.16	73-1-215	75-2-405 1/ 75-2-419 2/
13	OBS	11756003	M361	Smoke	25.82	P85133	MIL-C-46115	Gun M32 M48	P85134	WP	1.38	P85133	Burster Projectile M39		P85171	P85134
14	OBS	11756003	M340A1 M340	TP-T	27.32	8857345	MIL-C-45443	Gun M32 M48	8857345	-	-	-	Tracer M5A2B1 (M340) M13 (M340A1)	0.10	8796866	10520215

1/ Applicable to M312B1
 2/ Applicable to M312B2
 3/ Cast Bronze, - applicable to M20
 4/ Malleable Iron - applicable to M20B1
 5/ Tungsten carbide steel, and Aluminum.

CHART 5. 75-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE (yd/m)	MV (fps/mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.	
						DESIGNATION	DWG NO.	COMPOSITION	NOM WT (LB)	DWG NO.	DESIGNATION	TYPE					DWG NO.
Steel	Bar	10520210	-	-	-	M88B1 (steel) M88 (brass)	7548079 7548021	M30	5.60	8886612	M58	Perc 400 grains B Powder	8838153	15,419 (15,013 m)	3,200 (975 mps)	7548613	7548614
Steel	Bar	75-2-292	M66A1	BD	73-2-178	M26	71-2-123	M6	3.75	75-1-150	M40A1	Perc	8839471	17,000 (15,545 m)	2,600 (792 mps)	76-1603	76-1-652
Steel	Bar	10534430	-	-	-	M88B1 M88	7548079	M6	5.0	9204458	M62	Perc	8839454	1930 (1,755 m)	2,400 (731 mps)	9204459	9204460
3/ 4/	3/ 4/	72-3-48	M59	Dummy	72-5-5	-	-	-	-	-	-	-	-	-	-	76-1-603	76-1-652
Steel	Forged	75-2-435	M5LA5	PD/ MTSQ	8796862	M88 (brass) M88B1 (steel)	7548021 7548079	M6	3.64	75-1-293	M68 M58	Perc	8796867 8838153	16,010 (14,639 m)	2,400 (731 mps)	8863694	8863695
Steel	Forged	75-20-71	M5LA5	PD	8796862	M26B1 M26	71-2-201 71-2-123	M6	3.75	75-1-149	M40A1	Perc	8839471	14,600 (13,350 m)	2,700 (823 mps)	76-1-1127	76-1-1244
Steel	Bar	597471	M509A1	PI, BD	8799735	M17A1	8595555	M6	5.06	8848863	M81	Perc	8848625	9,360 (7,644 m)	3,550 (1,082 mps)	8837842	8837841
5/	Bar	75-2-475	-	-	-	M88B1 M88	7548079 7548021	M17	5.57	75-1-308	M58	Perc	8838153	24,127 (22,062 m)	4,125 (1,257 mps)	76-1-1379	76-1-1380
Alum Alloy	Cast	75-2-361	-	-	-	M26B1 M26	71-2-201 71-2-123	M17	3.90	75-1-220	M28A2	Perc	8838129	13,000 (11,987 m)	3,400 (1,036 mps)	76-1-1101	76-1-783
Steel	Forged	75-2-391	-	-	-	M26B1 M26	71-2-201 71-2-123	M2	3.90	75-1-249	M28A2 M28B2	Perc	8838129 8838130	13,000 (11,987 m)	3,400 (1,036 mps)	76-1-1101	76-1-783
Alum Alloy	Forged	-	-	-	-	M88B1 M88	7548079 7548021	M6	5.03	75-1-295	M62 M58	Perc	8839454 8838153	11,038 (10,093 m)	4,135 (1,260 mps)	76-1-1318	76-1-1319
Steel	Forged	75-2-413 1/ 75-2-419 2/	M57 1/ M48 2/	PD PD	73-2-137 1/ 8798219 2/	M26	71-2-123	M6	3.75	75-1-227 1/ 75-1-253 2/	M40A1 1/ M28A2 2/ M28B2 2/	Perc	8839471 1/ 8838129 2/ 8838130 2/	14,360 (13,130 m)	2,700 (823 mps)	76-1-1127	76-1-1244
Steel	Forged	P85134	M521 (M361A1) M48A3 (M361)	PD	7549112	M88B1 M88	7548079 7548021	M6	3.64	P85133	M68 M58	Perc	8796867 8838153	16,296 (14,901 m)	2,400 (731 mps)	8863694	8863695
Steel	Bar	10520217	-	-	-	M88B1 M88	7548079 7548021	M30	5.60	8857345	M58	Perc	8838153	16,419 (15,013 m)	3,200 (975 mps)	7548613	7548614

CHART 6. 81-MILLIMETER MORTAR AMMUNITION

CARTRIDGE										PROJECTILE					
TYPE CLASSIFICATION	MSR. AMCTCM OF OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF MORTAR	LOADING ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
									COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1 OBS	36841 11756003	M43A1B1 M43A1	HE	7.15	9218433	MIL-S-1436	M1 M29A1 M29	9218434	Comp B	1.29	9218434	--	--	--	75-2-261
2 STD	37291	M362	HE	9.42	7549034	MIL-C-45448	M1 M29A1 M29	7549035	Comp B	2.10	7548665	--	--	--	7549015
3 CON	11756003	M362	HE	9.62	7549013	MIL-C-45448	M1 M29A1 M29	7549012	Comp B	2.10	7549012	--	--	--	7549015
4 STD	1720	M362A1	HE	9.42	8838144	MIL-C-45448	M1 M29A1 M29	8839444	Comp B	2.10	8839444	--	--	--	8596996
5 STD	1720	M362A1	HE	9.62	8839445	MIL-C-45448	M1 M29A1 M29	8839444	Comp B	2.10	8839444	--	--	--	8596996
6 CON	11756003	M374	HE	9.34	9225283 8881026	MIL-C-46995	M1 M29A1 M29	8881025	Comp B	2.10	8881025	--	--	--	10543025
7 STD	7379	M374A1	HE	9.16	9251986 9251984	MIL-C-46995	M1 M29A1 M29	8881025	Comp B	2.10	8881025	--	--	--	10543025
8 STD	03756029	M374A2 5/	HE	9.34	9251986 9240950	MIL-C-46995	M1 M29A1 M29	8881025	Comp B	2.10	8881025	--	--	--	10543025
9 STD	05756028	M374A3	HE	9.50	9241291	MIL-C-48171	M1 M29A1 M29	8881025	Comp B	2.10	8881025	--	--	--	10543025
10 CON	11756003	M301A2 M301A1	Illuminating	10.71	8865054	MIL-C-46919	M1 M29A1 M29	8865054	Illum	1.37	8865059	First Fire Chg	0.05	8865059	10523459

CHART 6. 81-MILLIMETER MORTAR AMMUNITION

				FUZE				PROPELLING ASSEMBLAGE						PERFORMANCE		PACKING	
BODY			FIN					PROPELLANT INCREMENT			IGNITION CARTRIDGE	PRIMER		MAX RANGE (YD) yd (m)	MV fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	DWG NO.	DESIGNATION	TYPE	DWG NO.	DESIGNATION AND NO. USED	NOM WT GRAINS	DWG NO.	DESIGNATION AND DWG NO.	DESIGNATION AND TYPE	DWG NO.				
Steel	Forg	75-2-540	M3	75-2-262	1/ M525 Series M716	PD	8800197	M1A1 6/	700	9219089	M8 8865089 M6 8865062	M34 Perc	8865053	4050	834	8858643	8858642
Steel	Bar Forg (Alt)	7549020 7549021	M141	7549030	3/ M524A5	PD	9205729	M5 8/	1304	8839494	M66 8837347	M71A2 Perc	7549173	3987 9/ 2925	773 9/ 616	7549031	9230176
Steel	Bar Forg (Alt)	7549020 7549021	M141	7549030	4/ M524A6 M567 M532	PD PD VT	9205729 9246242 11001028	M5 8/	1304	8839494	M66 8837347	M71A2 Perc	7549173	3987 9/ 2925	773 9/ 616	7549031	9230176
7/	7/ Cast	8596989	M141	7549030	3/ M524A5	PD	9205729	M5 8/	1304	8839494	M66 8837347	M71A2 Perc	7549173	3987 9/ 2925	773 9/ 616	7549031	9230176
7/	7/ Cast	8596989	M141	7549030	4/ M524A6 M567 M532	PD PD VT	9205729 9246242 11001028	M5 8/	1304	8839494	M66 8837347	M71A1 Perc	7549173	3987 9/ 2925	773 9/ 616	7549031	9230176
12/	Cast PM1 Forg Steel	10543027 10543030 10543033	10/11/ M149 M170	10/11/ 10520200 10551892	9/W/O Fuze M524 Series M524A6 M526 Series M567 M532 M716/16	PD PD PD PD PD PRX	9220859 9205729 9205729 8800254 9246242 11001028	16/ M90(A&B)	1528	8881021 "A" Chg. 8881023 "B" Chg.	M66 M66A1 8837347 9233373 M285 9240960	M71A2 Perc	7549173	4932 9/	856 9/	8864657 9230175	8864663 9230176
12/	Cast Forg Bar	10543025 10543027 10543030 10543033	M149	10520200	9/W/O Fuze M524A6	PD	9205729	17/ M90A1 9/	1528	9233369 "A" Chg. 9233371 "B" Chg.	M66A1 9233373	M71A2 Perc	7549173	5003 9/ 3242	866 9/ 650	9230175	9230176
12/	Cast PM1 Forg Steel	10543027 10543030 10543033	M170	10551892	9/W/O Fuze M524 Series M567 M526 Series ----- M532	PD PD PD PD PRX	9205729 9246242 8800254 9220859 11001028	17/ M90 9 (A&B)	1528	9233369 "A" Chg. 9233371 "B" Chg.	M285 9240960	M71A2 Perc	7549173	4932 9/	856 9/	9230175	9230176
Steel	Alloy	70543027	M24	11726889	M524A6 M567	PD PD	9205729 9246242	M205	1568	9280586	M295 9293422 M6	M35 Perc M34	8840536	5333 13/	875	9287603	9287601
Steel	Tube	10523457	M4A1 2/	10523464	M84	Time	9205598	M2A1 4/	820	8865214	8865062	Perc	8865053	3000 2350	595	9241848 7548646	9241845 7548645

CHART 6. 81-MILLIMETER MORTAR AMMUNITION
(Continued)

CARTRIDGE										PROJECTILE						
TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF MORTAR	LOADING ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.	
									COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.		
11	STD	6390	M301A3	Illuminating	10.1	9220705	MIL-C-14909	M1 M29A1 M29	8865064	Illum	1.37	886509 8865059	First Fire Chg	0.05	8865059	9232481
12	STD	7321	M375	Smoke	9.14	8885264	MIL-C-60028	M1 M29A1 M29	8885263	WP	1.75	8885263	Chg B'ster M47	0.025	8846600	10522511
13	STD	7321	M375A1	Smoke	9.34	9251985	MIL-C-60028	M1 M29A1 M29	885263 885263	WP	1.60	8885263	Chg B'ster M47	0.025	8846600	10522511
14	STD	7321	M375A2	Smoke	9.34	9240953	MIL-C-60028	M1 M29A1 M29	8885263	WP	1.60	8885263	Chg B'ster M47	0.025	8846600	10522511
15	STD	03756028	M375A3	Smoke	9.10	9294735	MIL-C-48394	M1 M29A1 M29	8885263	WP	1.60	8885263	Chg B'ster M47	0.025	8846600	10522511
16	OBS	37196	M57A1 M57	Smoke	12.03	75-1-94	MIL-S-1436	M1 M29	75-14-255	FS	4.59	75-14-255	Chg B'ster M1	0.08	73-1-170	75-2-284
17	CON	11756003	M57A1 M57	Smoke	11.38	75-1-93	MIL-S-1436	M1 M29A1 M29	75-14-255	WP	4.06	75-14-255	Chg B'ster M1	0.08	73-1-170	75-2-284
18	STD	36841	M68	Tag	10.79	75-2-302	--	M1 M29A1 M29	--	--	--	Inert	--	--	--	75-2-302
19	STD	37767	M445	Tag	9.34	P87815	--	M1 M29A1 M29	P87815	Steel Slugs	2.19	P112974	Cart. Smoke 410 M152	--	P112999	7549015
20	CON	6267	M43A1	TP	7.16	75-1-89	MIL-S-1436	M1 M29A1 M29	75-14-212	Inert Mat'l	1.19	75-14-212	Spot Chg BFP	0.05	75-1-89	75-2-261
21	STD	06856008	M821	HE	8.96	9354443	GD/Prod Spec/002	M252	GD/30/ 201248 21/	RDX TNT	1.6	GD/30/ 201248 21/	--	--	--	GD/30/ 200203 GE 21/
22	STD	06856008	M889	HE	8.96	9354444	GD/Prod Spec/002	M252	GD/30/ 201248 21/	RDX TNT	1.6	GD/30/ 201248 21/	--	--	--	GD/30/ 200203 GE 21/

1/ Fuze Series, PD, M52, M53, M82 - (Fuze PD, M52 Series Obsolete - AMC TC 6558).
 2/ M4A1 (M56A1, M47/M56).
 3/ Fuze Series, PD M519. Obsolete by MSR 11756003.
 4/ Assembled w/Nose Plug, Dwg. 7540099 Preferred Fuzes, PD, M52A6, M567, Prox M532.
 5/ CTG M374A2 w/fuze M52A5 - CON MSR 11756003.
 6/ Issued separately.
 7/ Pearlite Malleable Iron.

8/ Charge 3 for M1 Mortar.
 9/ Assembled w/Nose Plug Dwg. 7549076 (AR 7549009).
 10/ M149 Fin Assy must use M66A1 Ign. Cart. No. 9233373 only (Yellow & Red).

CHART 6. 81-MILLIMETER MORTAR AMMUNITION
(Continued)

BODY			FIN		FUZE			PROPELLING ASSEMBLY					PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	DWG NO.	DESIGNATION	TYPE	DWG NO.	PROPELLANT INCREMENT			IGNITION CARTRIDGE	PRIMER		MAX RANGE (YD)	MV (FPS)	INNER PACK DWG NO.	OUTER PACK DWG NO.
								DESIGNATION AND NO. USED	NOM WT GRAINS	DWG NO.	DESIGNATION AND DWG NO.	DESIGNATION AND TYPE	DWG NO.				
Steel	Tube	9232481 9232484	M158	9221071	M84A1	Time	9232784	M185 9/	1640	9220708	M66A1 9233373	M71A1 Perc	7549173	13/ 4265	760	9241846	9241849
14/	14/ Cast Forg Bar	10535862 10535864 10535865	10/11/ M149 M170	10520200 10551892	3/ MS24A6 Ser	PD	9205729	15/ M90 9/ (1 "A") (8 "B")	1528	8881021 "A" Chg. 8881023 "B" Chg.	10/11/ M66 8837347 M66A1 9233373 8837347 M285 9240960	M71A1 M71A2	7549173	5003 8/ 3242	866 8/ 650	9230175	9230176
14/	14/ Cast Forg Bar	10535862 10535864 10535865	M149 10/	10520200	3/ MS24A5 MS24A6 M716/19	PD PD PD	9205729 9205729 9220859	16/ M90A1 9/ (1 "A") (8 "B")	1528	9233369 "A" Chg. 9233371 "B" Chg.	M66A1 9233373	M71A2 Perc	7549173	5003 8/ 3242	866 8/ 650	9230175	9230176
14/	Bar Forg Cast	10535862 10535864 10535865	M170	10551892	4/ MS24A6 MS67 MS32	PD PD VT	9205729 9246242 11001028	16/ M90A1 9/ (1 "A") (8 "B")	1528	9233369 "A" Chg. 9233371 "B" Chg.	M285 9240960	M71A2 Perc	7549173	5003 8/ 3242	866 8/ 650	9230175	9230176
Steel	Forg	10543027	M24	11726889	M567 MS24A6	PD PD	9246242 9205729	M205	1568	9280588	M299 9293422	M35 Perc	8440536	5333	879	9287603	9287601
Steel	Tube	75-2-284	M4A1	10523464	1/ M525 Ser	PD	8800197	M2A1 4/	320	8865214	M6 8865062	M34 Perc	8865053	2372	548	7548994	7548995
Steel	Tube	75-2-284	M4A1 M4	10523464	M525 Ser	PD	8800197	M2A1 4/	320	8865214	M6 8865062	M34 Perc	8865053	2872	2169m	7548994	7548995
Iron	Cast	75-2-302	M6 13/	75-2-396	--	--	--	--	--	--	6/ M3 75-19-76 M6 8865062 w/primer	6/ M34 Perc	8865053	310 294m	-- 173	--	76-1-338
Steel	Bar	7549020 7549021	M151	P86985	M531	Tng	P98412	--	--	--	M100	--	--	190	--	--	--
Steel	Forg	75-2-540	M3	75-2-262	1/ M525 Ser	PD	8800197	M1A1 6/	700	71-12-15	M6 8865089	M34 Perc	8865053	3300	705	8865089	8865063
10/	Cast	GD/030/ 200251 21/	--	91/ 16591	M734	Multi Option	11723100	M223	440	GD/030/ 201062 21/	L33A1 GD/030/ 200777 21/	N/A N/A	N/A	5700M	--	GD/030/ 100954 21/	GD/030/ 100838 21/
10/	Cast	GD/030/ 200251 21/	--	91/ 16591	M935	PD	3253258	M223	440	GD/030/ 201062 21/	L33A1 GD/030/ 200777 21/	N/A N/A	N/A	5700M	--	GD/030/ 100954 21/	GD/030/ 100838 21/

11/ M170 Fin Assy must use M255 Ign. Cart. No. 9240300 only (Yellow & Green)
 12/ Material may be Pearlitic Malleable Iron, Steel Alloy, Bar, Steel Plate, Steel Tube or Non Resulphurized Steel Bar.
 13/ To Maximum Illuminated Range.

14/ Material may be Non-Resulphurized Steel Bar Low Carbon Bar Pearlitic Malleable.
 15/ M90 Cloth Propellant Bag.
 16/ M90A1 Celecon Silk Propellant Bag.
 17/ No more than 5 propellant increments may be used w/M1 Mortar.
 18/ Fin Assembly M6 Cont by 11756003.
 19/ Fuzes P.D. M716 Permanently Suspended except for Emergency Combat.
 20/ Spheroidal Graphite.
 21/ British Army Drawings.

Note: 81MM Sabot M1 is listed
Chart 18.

CHART 7. 90-MILLIMETER AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	CARTRIDGE				PROJECTILE							
					NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			MODEL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	OBS	11756003	M77	AP-T	42.04	75-1-136		Guns M1, M2, Ser. M36 M41 M54	75-14-334	-	-	-	Tracer M3	0.01	75-14-330	75-18-44
2	STD STD	37119 36841	M316 M318A1 M318A1E1	AP-T	43.96 43.91	75-1-358 9207966	MK-C-45110	Guns M36, M41, M54	10522523	-	-	-	Tracer M5A2B1 M13 M5A2	0.10 0.036	8796866 8860550	75-18-44 10522523
3	OBS	11756003	M318A1C	AP-T	44.2	75-1-375	PA-PD-65	Guns M1, M2, Ser. M36, M41, M54	-	-	-	-	Tracer M5A2B1	0.10	8796866	75-18-44
4	OBS	11756003	M82	APC-T	42.75	75-1-145	PA-PD-168	Guns M1, M2, Ser. M36 M41 M54	75-14-334	Exp D	0.31	75-14-334	-	-	-	75-18-40
5	STD	9575	M580	APERS-T	41.25	9216454	PA-PD-2857	Guns M36 M41 M54	9216455	Flech 11/	4.5	9211486	Tracer M13 Red	0.13	8860550	9216427
6	CON	11756003	M336	Cstr	41.6	9214203	MIL-C-20353	Guns M1, M2 Ser. M36 M41 M54	-	Slug 7/	14.9	10535895	-	-	-	10535895
7	CON	11756003	M377	Cstr	39.30	9214706	PA-PD-2819	Guns M36 M41 M54	9214707	Flech 8/	6.8	9211486 9212526	-	-	-	9214707
8	STD	8601	M590 10	Cstr	6.79	9214567	PA-PD-2807 Ref	Rifle M67	9214566	Flech 9/	2.6	9211486	-	-	-	9214566

CHART 7. 90-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE (YD/m)	MV (fps/mpa)	INNER PACK DWG NO.	OUTER PACK DWG NO.	
						DESIGNATION	DWG NO.	COMPOSITION	NOMINAL WT (LB)	DWG NO.	DESIGNATION	TYPE					DWG NO.
Steel	Bar	75-16-44	-	-	-	M19	7548413	M6	7.31	75-1-136	M28A2 M28B1	Perc	8838129 8838130	12,325 (11,270 m)	2,700 (823 mpa)	7548301	7548306
Steel	Bar	75-2-545 10522525	-	-	-	M108B1 M108 M19 M19B1	7548028 7548257	M6 M17 M30	8.6	75-1-368 9207866	M49 (T33) M58	Perc	8838153	21,400 (19,568 m)	2,800 (853 mpa)	7548467	7548476
Steel	Bar	75-2-545	-	-	-	M19 M19B1	7548413 7548080	M6	8.6	75-1-357	M49	Perc	8838472	21,400 (19,568 m)	2,800 (853 mpa)	7548467	7548476
Steel	Forged or Bar	75-16-47	M68 M68A1	BD	73-2-1R1	M19	7548413	M6	7.31 1/ 8.06 2/	75-1-145	M28A2 M49	Perc	8838129 8838472	21,400 (19,568 m)	2,600 (792 mpa) 1/ 2,800 (853 mpa) 2/	76-1-604	76-1-672
Steel Alum	Bar	9216466	M711	MT	10542845	M200	10535893	M6	9.0	9216454	M56	Perc	8838153	4,800 (4,389 m)	3,000 (914 mpa)	9213660	9213661
Steel	Tubing	10535897	-	-	-	M108B1	7548028	M2	6	9214203	M56	Perc	8838153	Eff. 200 (183 m)	2,870 (875 mpa)	9215119	9215116
Steel	Tubing	9214712	-	-	-	M108B1	7548028	M6	9.0	9214706	M56	Perc	8838153	Eff. 440 (402 m)	2,950 (899 mpa)	8798640	8798641
Alum.	Formed Sheet	9225941	-	-	-	M112	8595496	M5	1.5	9214569	M92	Perc	8863394	Eff. 325 (299 m)	1,200 (366 mpa)	9213611	9213612

CHART 7. 90-MILLIMETER AMMUNITION
(Continued)

LINE NO.	CARTRIDGE								PROJECTILE							
	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
9	OBS OBS CON	11756003	M12 M12B1 M12B2	Dummy	42.04 44.00	72-3-76	-	Guns M1, M2 Ser. M36 M41 M54	-	-	-	-	-	-	-	-
10	CON	11756003	M71	HE	41.19	75-1-184	MIL-C-46226	Guns M1, M2 Ser. M36, M41, M54	75-14-446	Comp B TNT	1.68 1.6	75-14-446	Suppl Chg	0.365	8797090	75-18-42
11	CON	11756003	M71	HE	39.45	75-1-246	MIL-C-46226	Guns M1, M2 Ser. M36, M41, M54	75-14-446	Comp B TNT	1.68 1.6	75-14-446	Suppl Chg	0.365	8797090	75-18-42
12	CON	11756003	M71	HE	41.50	75-1-157	MIL-C-46226	Guns M1, M2 Ser. M36, M41, M54	75-14-305	Comp B TNT	2.15	75-14-305	-	-	-	75-18-42
13	CON	11756003	M71	HE	41.43	75-1-207	MIL-S-46226	Guns M1, M2 Ser. M36 M41 M54	75-14-446	Comp B TNT	2.15	75-14-446	Suppl Chg	0.365	8797090	75-18-42
14	CON	11756003	M71	HE	41.14	75-1-375	MIL-C-46226	Guns M1, M2 Ser. M36 M41 M54	75-14-446	Comp B TNT	2.15	75-14-446	Suppl Chg	0.365	8797090	75-18-42
15	OBS	9381	M591	HE	13.3	P-9209941	PA-PD-2784	Rifle M67	8839444 3/	Comp B	2.1	8839444	-	-	-	8596986
16	CON	6267	M348A1	HEAT	34.79	75-1-359	PA-PD-12	Guns M1, M2 Ser. M36 M41 M54	75-14-700	Comp B	1.56	75-14-700	-	-	-	75-2-575

CHART 7. 90-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLY								PERFORMANCE		PACKING	
						CARTRIDGE CASE		PROPELLANT			PRIMER						
MATE-RIAL	MATE-RIAL FORM	DWG NO.	DESIG-NATION	TYPE	DWG NO.	DESIG-NATION	DWG NO.	COM-POSITION	NOMINAL WT (LB)	DWG NO.	DESIG-NATION	TYPE	DWG NO.	MAX RANGE (YD/m)	MV (fps/mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
Manganese Bronze	Casting	72-3-77	M80	Dummv	72-3-13	-	-	-	-	-	-	-	-	-	-	76-1-603	7548306
Steel	Forged	75-20-92	M51A5	PD	8796862	M19 M19B1	7548413 7548080	M6 Flash- less Smoke- less	7.31	75-1-184	M28B2 M28A2	Perc	8838130 8838129	19,375 (17,716 m)	2,700 (823 mps)	7548301	7548306
Steel	Forged	75-20-92	M557	PD	8863535	M19 M19B1	7548413 7548080	M6 Flash- less Smoke- less	7.31	75-1-246	M28B2 M28A2	Perc	8838130 8838129	19,375 (17,716 m)	2,700 (823 mps)	7548301	7548306
Steel	Forged	75-20-92	M51A5	PD	8796862	M19 M19B1	7548413 7548080	M15 Flash- less Smoke- less	7.31	75-1-257	M49	Perc	8839472	19,375 (17,716 m)	2,700 (823 mps)	7548301	7548306
Steel	Forged	75-20-92	M557	M1SQ	8863535	M19 M19B1	7548413 7548080	M15 Flash- less Smoke- less	7.31	75-1-207	M49B1	Perc	8839472	19,475 (17,808 m)	2,700 (823 mps)	7548301	7548306
Steel	Forged	75-20-92	M51A5	PD	8796862	M19 M19B1	7548413 7548080	M6 Flash- less Smoke- less	7.31	75-1-375	M28B2 M28A2	Perc	8838130 8839129	19,475 (17,808 m)	2,700 (823 mps)	7548301	7548306
Iron	Brittle Malle-able	8396989	M593	PD	9211809	M112	8595496	M5	1.25	9212287	XM92E1	Perc	8863394	1,810 (1,655 m)	470 (143 mps)	8796717	8796716
Steel	Forged	75-1-578	M509A1	PIBD	8799735	T27E2	7548087	M6	5	75-1-359	T69	Perc	74-2-114	13,010 (11,896 m)	2,800 (853 mps)	8887601	8887602

CHART 7. 90-MILLIMETER AMMUNITION
(Continued)

LINE NO.	TYPE CLASSIFICATION	MSR, AMTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	PROJECTILE						
										FILLER			COMPONENTS			MODEL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWC NO.	KIND	WT (LB)	DWC NO.	
17	STD	4265	M37LA1	HEAT	9.25	8863468	MIL-C-46467	RIfE M67	8863469	Comp B	1.72	8863469	-	-	-	8595478
18	STD	4265	M37LE1	HEAT	9.25	8844542	MIL-C-46467	RIfE M67	8846857	Comp B	1.72	8846857	-	-	-	8595478
19	STD STD STD	8823	M431A2 M431A1 M431	HEAT-T	33	8822481	MIL-C-45491	Guns M36 M41 M54	8822480	Comp B	1.2	8822480	Tracer M13	0.036	8860350	8594965
20	STD	37436	M71A1	HE-T	38.8 39.54	8849017-1	MIL-C-46226	Guns M36 M41 M54	8849016-1	Comp B TNT	2.15	8849016-1	Tracer XM10	0.009	8849014	75-18-42
21	OBS	37119	M304	HVAP-T	35.82	75-1-234	MIL-C-20608	Guns M1, M2 Ser. M36 M41 M54	75-14-3	-	-	-	Tracer M5A2B1	0.10	8796866	75-2-375
22	CON	11756003	M332A1	HVAP-T	32.30	75-1-310	MIL-C-20608	Guns M1, M2 Ser. M36 M41 M54	-	-	-	-	Tracer M5A2B1	0.10	8796866	75-2-479
23	STD	37136	M371	Prac.	9.25	8865243	MIL-C-46927	RIfE M67	8865242	Inert Filler E	1.79	8865242	-	-	-	8595478

CHART 7. 90-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATE- RIAL	MATE- RIA: FORM	DWG NO.	DESIG- NATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE (YD/m)	MV (fps/mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.	
						DESIG- NATION	DWG NO.	COM- POST- TION	NOMINAL WT (LB)	DWG NO.	DESIG- NATION	TYPE					DWG NO.
Alum.	-	8595492	M530A1	PIBD	10980600	M112	8595496	M5	1.31	8848806	M92 M92A1	Perc	8863394	2,292 (2,095 m)	700 (213 mps)	8796717	8796716
Alum.	-	8595492	M530	PIBD	10404054	M112	8595496	M5	1.31	8848806	M78	Perc	8847520	2,292 (2,095 m)	700 (213 mps)	8796717	8796716
Steel	Forged	8595972	M509A1	PIBD	8799735	M114A1	8595505	M30	8.25	8822481	M79	Perc	8839465	8,900 (8,138 m)	4,000 (1,219 mps)	8800075	8800077
Steel	Forged	75-20-92	M557	PD	8863335	M19B1 M19	7548080 7548413	M1 Flash- less Smoke- less	5.31	8849017	M28B2 M28A2	Perc	8858130 8838129	17,306 (15,819 m)	2,400 (731 mps)	7548501	7548306
Alum.		75-2-375	-	-	-	M19 M19B1	7548413 7548080	M6 Smoke- less Flash- less	8.4	75-1-234	M40A1	Perc	8839471	15,130 (13,835 m)	3,350 (1,021 mps)	76-1-1106	76-1-1237
Alum. Alloy Tungsten Carbide	Forged	75-2-481	-	-	-	M19 M19B1	7548413 7548080	M17	8.5	75-1-310	M49	Perc	8839472	15,700 (14,356 m)	3,875 (1,181 mps)	76-1-1106	76-1-1237
Alum. Alloy		8595492	M530	PIBD	10404054	M112	8595496	M5	1.3	8848806	XM92	Perc	8863394	Eff. Range 400	(213 mps)	8796717	8796716

CHART 7. 90-MILLIMETER AMMUNITION
(Continued)

LINE NO.	CARTRIDGE								PROJECTILE							
	TYPE-CLASSIFICATION	MR. AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJEC-TILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			MODEL PARTS ASSEMBLY DWG NO.
										COM-POSI-TION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
24	CON	11756003	M313	Smoke WP	42.52	75-1-224	MIL-S-3139	Guns M1, M2 Ser M36 M41 M54	75-14-501	WP	1.97	75-14-501	Burster M24 4/	2.33 oz.	73-1-211	75-2-369
25	STD	37619	M313C	Smoke WP	40.52	8858640	MIL-C-46226	Guns M36 M41 M54	75-14-501	WP	1.97	75-14-501	Burster M24 4/	2.33 oz.	73-1-211	75-2-369
26	OBS	37119	M71	TP	42.04	75-1-163	-	Guns M1, M2 Ser M36 M41 M54	-	Inert Mat'l	2.15	75-1-163	-	-	-	75-18-42
27	OBS	11756003	M353A1 M353	TP-T	43.91	8861603	MIL-C-45096	Guns M36 M41 M54	-	-	-	-	Tracer Proj M13 M5A2 M5A2B1	0.036	8860550	10522528
28	STD	02766007	M764	TP-T	21.00	9297850	MIL-C-48758	M36 M41 M54	9297851	Inert Type 2	2.15	MIL-I-80350	Tracer M10	0.009	8849014	75-18-42D

- 1/ w/M28A2 Primer, Propellant, Flashless-Smokeless.
- 2/ w/M49 Primer.
- 3/ 81MM, 3.362A1 Loading Assy.
- 4/ Contains Burster, Casing M13, Dwg 73-1-212 and Burster, Initiator, M2 Dwg 8830869.
- 5/ w/M49 Primer.
- 6/ w/M28A2 or M28B2 Primer.
- 7/ Contains 1281, steel slugs
- 8/ Contains 5600 flechettes.
- 9/ Contains 2400 flechettes.
- 10/ XM590E1 Differs in Nose end design - flat bottom, scored metal cup crimped to projectile body instead of cloven plastic plug and contains 2400 flechettes.
- 11/ Contains 4200 flechettes.

CHART 7. 90-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE								PERFORMANCE		PACKING	
MATE- RIAL	MATE- RIAL FORM	DWG NO.	DESIG- NATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER			MAX RANGE (YD/m)	MV (fps/mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
						DESIG- NATION	DWG NO.	COM- POSI- TION	NOMINAL WT (LB)	DWG NO.	DESIG- NATION	TYPE	DWG NO.				
Steel	Forged	75-2-370	M48A3	PD	8798219	M19 M19B1	7548413 7548080	M15 M8	7.31	75-1-224	M49 M28B2	Perc	8839472 8838130	19,375 (17,716 m)	2,700 (823 mps)	7548301	7548306
Steel	Forged	75-2-370	M48A3	PD	8798219	M19B1	7548080	M1	5.33	8858640	M28B2 M28A2	Perc	8838130 8838129	18,800 (15,362 m)	2,400 (731 mps)	7548301	7548306
Steel	Forged	75-20-92	M73	Dummy	8796863	M19 M19B1	7548413 7548080	M15 5/ M16 5/	7.31	75-1-163	M49 M28A2 M28B2	Perc	8839472 8838129 8838130	19,375 (17,716 m)	2,700 (823 mps)	76-1-602	76-1-1236
Steel	Bar	10522528	-	-	-	M108 M108B1	7548028 7548257	M30	8.6	8861603	M58	Perc	8838153	23,000 (21,031 m)	3,000 (914 mps)	7548467	7548476
Steel	Forged	75-20-92	-	-	-	M19B1	7548080	M1	5.3	8849017	M28B2	Perc	8838130	-	-	7548301	7548306

CHART 8. 105-MILLIMETER AMMUNITION

LINE NO.	CARTRIDGE							PROJECTILE							METAL PARTS ASSEMBLY DWG NO.	S	
	TYPE-CLASSIFICATION	MSR. AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJEC-TILE ASSEMBLY DWG NO.	FILLER			COMPONENTS				
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)			DWG NO.
1	STD	36841	M60	Agent	42.92	75-1-109	MIL-C-3139	How* M2A1 M2A2 M4 M4A1 M49 M137	75-14-273 9217215	HD	2.97 or 3.17	75-14-273	Burster Chg M5 Casing M5	0.31 10535946	10535931 10535946	10535936	S
2	STD	37119	M360	Agent	43.86	75-1-363	MIL-C-3139	How M2A1 M2A2 M103 M4 M4A1 M49 M137	75-14-705	GB Non- Pers	1.63	75-14-705	Burster Chg. M40 Casing M16	1.90 75-1-255 8880479 75-1-257	75-4-209	75-4-209	S
3	STD 1/ STD 2/	38116	M392A2 1/ M392A1 2/	APDS-T	41.0	8863427 1/ 8799900 2/	MIL-C-46216	Gun M68	8863426 1/ 8799894 2/	Pene- trator 3/	- -	8595464 -	Tracer M13	0.036 8860550	8860550 8595461	8595461	S
4	STD	02787001	M726	APDS-T	42.0	9276810	MIL-C-48237	Gun M68	9287564	Pene- trator 3/	-	11738350	Tracer M13	0.036 8860550	8860550	11738343	S
5	STD	9575	M494	APERS	55.0	9229962	MIL-C-14747	Gun M65	9229964	Fich 13-gr Steel	9.2	9219980	Tracer M13	0.036 8860550	8860550	9229966	A S
6	STD	09736030	M546	APERS-T	38.25	9211669	PA-PD-2789 MIL-C-50252	How M2A1 M2A2 M103 M137	9211471 Designa- tion XM380E5	Fich 8-gr Steel	9.145	9211486	Tracer M13	0.036 8860550	8860550	9211480	A S
7	STD	02789001	M735	APFSDS-T	38.00	9296707	MIL-C-63055	M68	9331316	Pene- trator 3/	-	9312505	Tracer M13	0.036 8860550	8860550	9331316	S
8	STD	36841	M14	Dummy	42.06	72-3-78	-	How* M2A1 M2A2 M49	-	-	-	-	-	-	-	72-3-79	S N al li
9	STD	639	M457	Dummy	44.0	10534134	FA-PD-MI- 2608	Gun M68	-	-	-	-	-	-	-	10534162	S
10	STD	4181	M1	HE	42.0	75-1-75	MIL-C-45195	How* M2A1 M2A2 M4 M4A1 M49	75-14-206	Comp B TNT	5.06 4.80	75-14-206	Closing Plug	0.37 75-14-40 8797490	75-14-40 8797490	75-4-75	S

CHART 8. 105-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE YD (m)	MV fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.	
						DESIGNATION	DWG NO.	COMPOSITION	NOM WT (LB)	DWG NO.	DESIGNATION	TYPE					DWG NO.
Steel	Forged	10535941	M557 M739 8/	PD	8863535 9258602	M14 M14B1	7548409 7548025	M1	2.75	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,270 m)	1,550 (472.4 mps)	7549073	7549072
Steel	Forged or Bar	75-4-210	M557 M739	PD	8863535 9258602	M14 M14B1	7548409 7548025	M1	2.75	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,270 m) 12,590 yds (11,500 m)	1,550 (472.4 mps) 1,621 fps (494 mps)	7549073	7549072
Sabot 5/	Magnesium Alloy	8595476 3	-	-	-	M115B1 M115	10520214 8597480	M30	12.0	8863427	M80A1	Elec	8839499	40,162 (36,146 m)	4,850 (1,479 mps)	8835040	8835039
Sabot 5/	Magnesium Alloy	11738346	-	-	-	M115B1	10520214	M30	12.0	MIL-P-48266	M80A1	Elec	8839499	-	4,680	8835040	8835039
Alum. Steel	Forged	9229967	M571	MT	10551670	M150B1 M150	10521648 8597473	M6	9.2	9229962	M86	Elec	8847424	4,840 (4,400 m)	2,700 (821 mps)	9204453	9204454
Alum. Steel	-	9211531	M563 Series	MT	10520688	M14B4 Series	8595386	M30E1 M30A1	3.1	9211657	M90	Perc	8866664	328 (295 m) 6/	5/	8862348	8862347
Sabot	Alum.	9331314	-	-	-	M148A1B1	10522799	M30	12.5	MIL-P-63105	M120	Elec	9296617	-	4,925	9293481	9293479
Steel Malleable Iron	Forged Bronze Casting	72-3-79	M59	Dummy PD	72-5-5	M14 Series	-	Propel-ling Chg, M3 Dummy	3.10	72-2-64 8865039	M1B1	Inert Perc	8839474	-	-	7549073	7549072
Steel	Bar	10534163	-	-	-	M148A1 B1	10522799	-	-	-	-	-	-	-	-	8836005	8836004
Steel	Forged	75-20-76	M557 M564 M739 8/	PD MT SQ PD	8863535 10534285 9258602	M14 M14B1	75-8409 75-8025	M1	2.75	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,270 m) 12,590 yds (11,500 m)	1,550 (472.4 mps) 1,621 fps (494 mps)	7549073	7549072

CHART 8. 105-MILLIMETER AMMUNITION
(Continued)

LINE NO.	CARTRIDGE								PROJECTILE							
	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
11	STD	4181	M1	HE	42.0	75-1-91	MIL-C-45195	How* M2A1 M2A2 M4 M4A1 M49	75-14-206	Comp B TNT	5.08 4.80	75-14-206 9211610	Closing Plug	0.37	75-14-40 8797490	75-4-75
12	STD	4181	M1	HE	42.93	75-1-185	MIL-C-45195	How* M2A1 M2A2 M4 M4A1 M49	9211610	Comp B TNT	4.60 4.25	9211610	Suppl Chg	0.3	8797090	75-4-75
13	STD	4181	M1	HE	39.92	9211611	MIL-C-45195	How* M2A1 M2A2 M4 M4A1 M49 M103 M137	9211610	Comp B TNT	4.60 4.25	9211610	Suppl Chg Closing Plug	0.35 0.3 0.37	8797090	10535876
14	OBS	37119	M323	HE	48.59	75-1-263 75-1-264	MIL-C-12870	Rifles M27 M27A1	75-14-618	Comp B TNT	4.38 4.61	75-14-618	Suppl Chg	0.365	8797090	75-4-174
15	OBS	11756003	M413 (T377E1)	HE	42.0	XP97090	AEI-17	How M2A1 M2A2 M49	FXP 94957	Comp B	1.1	XP 94930	18 M35	10.4	XP94930	XP97193
16	STD	37803	M444	HE	42.0	8864930	AEI-68	How M2A1 M2A2 M49 M103 M137 M137E1	8864931	A5	0.93	8864945	Grenade 18 M39	10.4	8864945	8864932
17	OBS	6418	M341	HEAT	37.10	75-1-313	MIL-C-12631	Rifle M27A1	75-14-661	Comp B	2.38	75-14-655	-	-	-	75-2-501
18	OBS	6418	M324	HEAT-T	46.1	75-1-266	PA-PD-96	Rifle M27 M27A1	75-14-619	Comp B	3.06	75-14-619	Tracer MSA2B1	0.10	8796866	75-4-175
19	STD OBS STD LP	4877 11758003 11758003 08786019	M456A1 M456 M456E1 M456A2 (M456A1E2)	HEAT-T HEAT-T- MP	48.0 49.1	8861065 9312815	MIL-C-46457 MIL-C-63286	Gun M68	8861071 9312815	Comp B Comp B	2.14 2.14	8861071 9327408	Tracer Projectile M13	0.013 0.013	8860550 8860850	8597604 9323824

CHART 8. 105-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE YD (m)	MV fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.	
						DESIGNATION	DWG NO.	COMPOSITION	NOM WT (LB)	DWG NO.	DESIGNATION	TYPE					DWG NO.
Steel	Forged	10521644	M509A1	PIBD	8799735	M201	11820669	M30	3.55	MIL-P-668	M100	Perc	9277103	-	-	8876101	8876100
Steel	Forged	75-4-193	M91A1	BD	8837308	M32	71-2-141	M10	7.70	75-1-296	M57	Perc	8838009	8,260 (7,434 m)	1,250 (381 mps)	76-1-1342	7549148
Steel	Forged	75-2-498	M91	BD	8837308	M14 M14B1	7548409 7548025	M6	3.90	71-9-269	M28A2 M28B2	Perc	8838129 8838130	9,100 (8,190 m)	1,835 (559.7 mps)	7549073	7549072
Steel	Forged	75-2-522 8596146	M91A1	BD	8837308	M95B1	71-2-188	M10	8.25	75-1-323	M57	Perc	8838009	750 (675 m)	1,690 (515.5 mps)	7549071	7549070
Steel	Bar	8597103	M534A1	BD	8860724	M150B1 M150	10521648 8597492	M1	5.9	8853734	M86	Elec	8847424	10,400 (9,360 m)	2,400 (732 mps)	8836005	8836004
Steel	Bar	10524307	M578	BD	8886434	M150B1 M150	10521648 8597492	M1	5.9	8853734	M86	Elec	8847424	10,400 (9,360 m)	2,400 (732 mps)	8836005	8836004
Steel	High Carbon		M739 M557 M582 M728	PD MTSQ PROX	9258602 8863535 9236701 11718400	M14B4 M14B1 M14	8595386 7548025 7548409	M30A1	2.75	9212377	M108	Perc	9212386	16,000	1,800	9212636	9212637
Steel	Forged (M314-A2) Tube (M314- A2B1)	75-4-129 75-2-542	M501A1	MTSQ	73-7-136	M14 M14B1	7548409 7548025	M1	2.8	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,270 m) 12,590 (11,500 m)	1,550 (472.4 mps) 1,621 (494 mps)	7549073	7549072
Steel Tubing	Forged	10534902	M565 M577	MT MTSQ	10522991 9236500	M14B4 3E1 M14	8595386 7548409	M61	2.8	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,270 m) 12,590 yds (11,500 m)	1,550 (472.4 mps) 1,621 (494 mps)	7549073	7549072
Steel	Forged	75-4-111	M501A1	MTSQ	73-7-136	M14B1 M14	7548025 7548409	M1	2.75	9205472	M28A2 M28B2	Perc	8838129 8838130	9,943 (6,949 m)	1,421 (433.7 mps)	7549073	7549072

CHART 8. 105-MILLIMETER AMMUNITION
(Continued)

LINE NO.	CARTRIDGE							PROJECTILE								
	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NC	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
20	STD	06786019	M622	HEAT-T	32.1	9282517	MIL-P-63208	How M2A1 M2A2 M103 M137	9282518	Comp B	2.14	MIL-C-401	Tracer M13	0.036	8860850	9282519
21	OBS	11756003	M326	HEP-T	41.3	75-1-296	PA-PD-92	Rifle M27 M27A1	75-14-637	Comp A-3	7.5	75-14-637	Tracer M5A2B1	0.10	8796866	75-4-185
22	STD	36841	M327	HEP-T	33.45	75-1-362	MIL-C-42650	How** M2A1 M2A2 M4 M4A1 M49 M103 M137	75-14-702	Comp A-3	7.6	75-14-702	Tracer M5A2B1	0.10	8796866	75-2-497
23	OBS	6418	M345	HEP-T	37.37	75-1-323	PA-PD-93	Rifle M27 M27A1	75-14-667	Comp A-3	7.72	75-14-667	Tracer M5	0.10	8796866	75-2-521
24	STD	3325	M393A1	HEP-T	45.0	8853736	MIL-C-46492	Gun M68	8853735	Comp A-3	6.4	8853735	Tracer M12	0.04	8853698	8597104
25	STD	3325	M393A2	HEP-T	45.0	8886470	MIL-C-60039	Gun M68	886469	Comp A-3	6.8	8886465	Tracer Projectile M12	0.04	8853698	10524305
26	STD 77	8414	M546	HERA	38.5	9212376	MIL-C-60932	M2A1 M2A2 M103 M137	9212389	Comp B	5.2	9212390	Suppl Chg	0.3	8797090	9212394
27	C&T	7467	M314A2 M314A M314	Illum	46.43	75-1-229	MIL-C-20354	How** M2A1 M2A2 M4 M4A1 M49	75-14-505	Illum	1.74	9206749	Chg 1st Fire	0.13	9206749	75-4-128
28	STD	7467	M314A3	Illum	46.43	9206821	MIL-C-20354	How** M2A1 M2A2 M4A1 M49	9206744	Illum	1.97	9251740	Chg 1st Fire	0.15	9251741	10534900
29	OBS	11756003	M84 M84B1	Leaflet	39.7	9219187	MIL-C-20426	How** M2A1 M2A2 M4 M4A1 M49	9218520	Leaflets replaces smoke canister			Burster Chg BP	0.14		75-4-105

CHART 8. 105-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATE- RIAL	MATE- RIAL FORM	DWG. NO.	DESIG- NATION	TYPE	DWG. NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE YD (m)	MV fps (mps)	INNER PACK DWG. NO.	OUTER PACK DWG. NO.	
						DESIG- NATION	DWG. NO.	COM- POS- TION	NOM WT (LB)	DWG. NO.	DESIG- NATION	TYPE					DWG. NO.
Steel	Forged	10521644	M509A1	PBD	8799735	M201	11820669	M30	3.55	MIL-P-668	M100	Perc	9277103	-	-	8876101	8876100
Steel	Forged	75-4-193	M91A1	BD	8837305	M32	71-2-141	M10	7.70	75-1-296	M57	Perc	8838009	8,260 (7,434 m)	1,250 (381 mps)	76-1-1342	7549148
Steel	Forged	75-2-498	M91	BD	8837308	M14 M14B1	7548409 7548025	M6	3.90	71-9-269	M28A2 M28B2	Perc	8838129 8838130	9,100 (8,190 m)	1,835 (559.7 mps)	7549073	7549072
Steel	Forged	75-2-522 8596146	M91A1	BD	8837305	M95B1	71-2-188	M10	8.25	75-1-323	M57	Perc	8838009	750 (675 m)	1,690 (515.5 mps)	7549071	7549070
Steel	Bar	8597103	M534A1	BD	8860724	M150B1 M150	10521646 8597483	M1	5.9	8853734	M86	Elec	8847424	10,400 (9,360 m)	2,400 (732 mps)	8836005	8836004
Steel	Bar	10524307	M578	BD	8886434	M150B1 M150	10521646 8597493	M1	5.9	8853734	M86	Elec	8847424	10,400 (9,360 m)	2,400 (732 mps)	8836005	8836004
Steel	High Carbon		M739 M557 M582 M728	PD MTSQ PROX	9258602 8863535 9236701 11718400	M14B4 M14B1 M14	8595386 7548025 7548408	M30A1	2.75	9212377	M106	Perc	9212386	15,000	1,800	9212636	9212637
Steel	Forged (M314-A2) Tube (M314- A2B1)	75-4-129 75-2-542	M501A1	MTSQ	75-7-136	M14 M14B1	7548409 7548025	M1	2.6	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,270 m) 12,590 (11,500 m)	1,550 (472.4 mps) 1,621 (494 mps)	7549073	7549072
Steel Tubing	Forged	10534902	M565 M577	MT MTSQ	10522991 9238500	M14B4 3E1 M14	8595386 7548408	M67	2.6	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,270 m) 12,590 yds (11,500 m)	1,550 (472.4 mps) 1,621 (494 mps)	7549073	7549072
Steel	Forged	75-4-111	M501A1	MTSQ	75-7-136	M14B1 M14	7548025 7548408	M1	2.75	9205472	M28A2 M28B2	Perc	8838129 8838130	9,843 (8,949 m)	1,422 (433.7 mps)	7549073	7549072

CHART 8. 105-MILLIMETER AMMUNITION
(Continued)

LINE NO.	CARTRIDGE								PROJECTILE							
	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJEC-TILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
30	CON	11756003	M84 M84B1	4/	41.96	9219187-2	MIL-C-20418	How* M2A1 M2A2 M4 M4A1 M49	9218520-2 9218520-3 9218520-4 9218520-5	4/ Smoke Colored	4/	C15-11-60	Chg BP	0.15	9218512	75-4-105
31	CON STD	11756003 9102	M60 M60A1	Smoke	43.81 42.92	75-01-110 9218521	MIL-C-3139 MIL-C-60380	How* M2A1 M2A2 M4 M4A1 M49	9217215 9218522 9218522	WP	3.83	9217215	Burster Chg M5 Casing M5 M53 M53A1	0.21 0.21	10535931 10535948	10535930
	STD	9102	M60A2		41.71	9257991	MIL-C-60380		9218522	WP	3.35	9225939		0.21	9223129	10535930
32	STD	36841	M84 M84B1	Smoke	41.93	9219187-1	MIL-C-20418	How* M2A1 M2A2 M4 M4A1 M49	9218520-1	HC	7.50	C15-11-22	Expelling Chg BP	0.15	9218512	75-4-105
33	STD	7621	M84A1	Smoke	40.5	9223431-1	MIL-C-20418	How M2A2 M103 M107	9223430-1	HC	12.3	C15-11-12	Expelling Chg	0.11	9207912	10542998
34	STD	2173	M416	Smoke	45.5	9886487	MIL-C-46956	Gun M68	9886486	WP	6.0	9886485	Burster Projec. M48 Tracer Projec. M12	0.4	8853698	10522903
35	CON	03736119	M629	Tactical CS	42.0	9220225	MIL-C-60411	How M2A2 M137	9220224	CS	6.66	C15-11-183	Expelling Chg	0.11	9207912	10543036

CHART 8. 105-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE								PERFORMANCE		PACKING	
						CARTRIDGE CASE		PROPELLANT			PRIMER						
MATE- RIAL	MATE- RIAL FORM	DWG NO.	DESIG- NATION	TYPE	DWG NO.	DESIG- NATION	DWG NO.	COM- POSI- TION	NOM WT (LB)	DWG NO.	DESIG- NATION	TYPE	DWG NO.	MAX RANGE YD (m)	MV fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
Steel	Forged	75-4-111	M501A1	MTSQ	73-7-136	M14B4 M14B1	8595836 7548025	M1	2.83	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,270 m) 12,590 yds (11,500 m)	1,550 (472.4 mps) 1,621 fps (494 mps)	7549073	7549072
Steel	Forged	10535941	M557 M564 3/	PD MTSQ	8863535 10534285	M14B1 M14	7548025 7548409	M1	2.75	9205472	M28A2 M28B2 M28A2	Perc	8838129 8838130 8838129	12,330 (11,270 m)	1,550 (472.8 mps) 1,550	7549073	7549072
Steel	Forged	10535941									M28B2	Perc	8838130	12,330 (11,270 m)	1,550 (472.8 mps)	7549073	7549072
Steel	Forged	75-4-111	M501A1	MTSQ	73-7-136	M14B4 M14B1	8595836 7548025	M1	2.75	9205472	M28A2 M28B2	Perc	8838129 8838130	12,330 (11,097 m)	1,550 (472.8 mps)	7549073	7549072
Steel	Semi Fin	10542990	M548 M565 M577	MTSQ MT MTSQ	10520638 10522991 9236500	M14B1 M14B4	7548025 8595386	M1	2.75	9205472	M28B2 M28A2	Perc	8838130 8838129	12,330 (11,270 m)	1,330 (405 mps)	7549073	7549072
Steel	Bar	10522805	M534A1	BD	8860724	M150B1 M150	10521648 8597493	M1	5.9	8853734	M86	Elec	8847424	10,000 (9,150 m)	2,400 (730 mps)	8836005	8836004
Steel	Forged	10534901	M548 M565 M577	MTSQ MT MTSQ	10520638 10522991 9236500	M14 Series	8595386	M1	2.75	9205472	M28B2 M28B1	Perc	8838130	12,330 (11,270 m) 12,390 yds (11,500 m)	1,550 (472.4 mps) 1,621 fps (494 mps)	7549073	7549072

CHART 8. 105-MILLIMETER AMMUNITION
(Continued)

LINE NO.	CARTRIDGE								PROJECTILE							
	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
36	CON	8650	M67	TP-T	37.06	75-1-191	MIL-C-12849	How * M2A1 M2A2 M49	75-14-463	Inert Mat'l	3.89	75-14-463	Tracer M5A2B1	0.10	8796866	75-4-106
37	STD	0173625	M467	TP-T	45.0	8863618	MIL-C-46665	Gun M68	8863616	Inert Mat'l	-	-	Tracer Projec. M12	0.04	8853698	10521886
38	STD	1103	M490	TP-T	45.0	8865533	MIL-C-46988	Gun M68	8865533	Inert Mat'l	-	-	Tracer Projec. M13	0.036	8860550	10523475
	STD	06846011	M490A1	TP-T	45.81	9343005	MIL-C-63513		9329792		-	-				9329792
39	STD	05746014	M72A1 and M724	TPDS-T	32.0	9278500	MIL-C-48139	Gun M68	9278499	Inert Mat'l	-	11738370	Tracer M13	0.036	8860530	11738365
40	STD	12803004	M774	APFSDS -I	38.8	9324880	ANSI Y14.5 -1973	Gun M68	9310779	Penetrator 5	-	9310779	Tracer M13	0.036	8860550	9329514
41	STD	DA Ltr 4'93	M833 M833	APFS DS-T	36.2	9342932	MIL-C-63423	Gun M68	9342931	Penetrator 5	-	9342931	Tracer M13	0.036	8860550	9342931
42	STD	09786046	M760	HE	39.92	9289185	MIL-C-63261	BLG L119 10/	9211610.2	TNT	4.6	9211610	-	-	-	10555870

- 1/ Applicable to M392A2.
- 2/ Applicable to M392A1.
- 3/ Sheath and core assembly, Sintered Tungsten Carbide Core.
- 4/ Filler Color Filler Wt.
 - Yellow 4.92
 - Red 5.21
 - Green 5.13
 - Violet 5.13
- 5/ Muzzle velocity 1700 FPS (519 m) from How M2A2, 1800 FPS from How M103 & M137.
- 6/ From point of fuze functioning.
- 7/ Zone 7 only.
- 8/ Shipped with closing plug in lieu of fuze, preferred fuzes listed.
- 9/ Depleted Uranium Core.
- 10/ British Light Gun L119.
 - * M103, M137.

CHART 8. 105-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATE- RIAL	MATE- RIAL FORM	DWG NO.	DESIG- NATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE YD (m)	M' fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.	
						DESIG- NATION	DWG NO.	COM- POSI- TION	NOM WT (LB)	DWG NO.	DESIG- NATION	TYPE					DWG NO.
Steel	Bar	75-20-84	-	-	-	M14 Series	7548025 7548409	M1	1.54	71-9-204	M28A2 M28B2	Perc	8838129 8838130	8,281 (745 m)	1,250 (381 mps)	7549075	7549072
Steel	Bar	10521886	-	-	-	M150B1 M150	10521846 8597493	M1	5.9	8853734	M86	Elec	8847424	10,400 (9,510 m)	2,400 (730 mps)	8836005	8836004
Steel	Bar	10523475	-	-	-	M148A1 B1	10522799 8597492	M30	11.5	8865257	M83	Elec	8847476	8,975 (8,207 m)	3,850 (1,170 mps)	8837832	8837831
Steel	Bar	9229799	-	-	-	M148E4 M148A1B1	9343010	M14	11.75	83517	M80A1	Elec	8839499	8,975 (8,207 m)	3,850 (1,170 mps)	9328579	9328580
Sabot	Magnesium Alloy	11738367	-	-	-	M115B1	10520214	M1	9.0	MIL-P- 48154	M80A1	Elec	8839499	1,845 (15,306 m)	5,080 (1,539 mps)	8835040	8835039
Sabot	Alum.	9310777	-	-	-	M148A1 B1	10522799	M30	12.9	MIL-P- 46489	M120	Elec	9296617	8,975 (8,207 m)	4950 (1513 mps)	9293481	9293479
Sabot	Alum.	9342924	-	-	-	M148A, B	10522799	M30	12.5	MIL-P- 63515	M120	Elec	9296617	-	-	9349242	9345252
Steel	Forged	10535877	M557 M739 M564 M582 M732	PD PD MTSQ MTSQ PROX	8863535 9258602 10534285 9236701 11716451	M14B4	8595386	M30 Type 1	4.5	9282042	M28B2	Perc	8838130	-	-	-	7549072

CHART 9. 106-MILLIMETER AMMUNITION

LINE NO.	TYPE CLASSIFICATION	MSR. AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	CARTRIDGE				PROJECTILE							
					NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJEC-TILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	STD	3416 5/	M581	APERS-T	41.25	9210603	PA-PD-2800 Ref	Rifle M40A1 M40A4	9210624	Flch Steel (8grain) 6/	10.9	9210612 9211488	Tracer Proj M13	0.036	8860550	9210605
2	STD	36885 5/	M368	Dummy	37.93	8596153	FA-PD-MI 2380	Rifle M40A1 M40A1C M40A4	8596154	Inert	7.75	8596154	-	-	-	8596145
3	STD STD	37032 5/	M344A1 M344 3/	HEAT	36.19	7549097 75-1-319	MIL-C-13473	Rifle M40A1 M40A1C M40A4	7549096	Comp B	2.79	7549096	-	-	-	7549103
4	STD	37032 5/	M346A1	HEP-T	37.37	8837335	MIL-C-46250	Rifle M40A1 M40A1C M40A4	8837336	Comp A3	7.72	8837336	Tracer M5A2B1	0.10	8796866	8596145

1/ For M344A1
 2/ For M344
 3/ Fin Assembly, M8, Dwg. 7549111
 4/ Inert Propellant loading omitted and Flash Tube replaced with built-up metal bar which provides the same weight and center of gravity as prototype.
 5/ STD A for USMC use, AMCTC 7761.
 6/ Expelling Charge M9, 1.23 oz., yellow dye 11 grams, Detonators (4) M86 (XM86) (1) XM87 with relay M7.

CHART 9. 106-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATE- RIAL	MATE- RIAL FORM	DWG NO.	DESIG- NATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER			MAX RANGE (YD/M)	MV (ft/s/mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
						DESIG- NATION	DWG NO.	COM- POS- ITION	NOM WT (LB)	DWG NO.	DESIG- NATION	TYPE	DWG NO.				
Alum	Tubing Impact Extru.	9210607	M592	MT	10542850	M94B1	8596150	M26	8.0	9210603	M57	Perc	8838009	3,630 (3,319m)	1,440 (1,317 mps)	9212553	9212554
Steel	Plate	8596146	-	-	-	M94B1	8596150	4/	4/	-	-	Dummy	8596158	-	-	7549071	7549070
Steel	Tubing	7549077	M509A1	PIBO	8799735	M94B1 M93B1 1/ 2/	8596150 7549092	M26 M19 1/ 2/	8.06 8.10	7549097	M57	Perc	8838009	3,300 (3,017 m)	1,650 (1,509 mps)	7548962	7548963
Steel	Plate	8596146	M91A2	BD	8837308	M94B1	8596150	M26 M10 1/ 2/	9.0 8.04	8837335	M57	Perc	8838009	7,515 (6,872 m)	1,635 (1,995 mps)	7549071	7549070

CHART 10. 4.2-INCH MORTAR AMMUNITION

LINE NO.	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	CARTRIDGE				PROJECTILE							
					NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF MORTAR	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	STD OBS	36841 05776015	M2A1 M2	Agent Agent	24.91	75-1-284	MIL-S-13925 MIL-C-12476	Mortar Cannon M30 M2	75-14-630	H	6.20	75-14-630	10/ Case Proj Burst M14	0.75	10534914	1/ 75-2-420
					HT					5.75	2/ 75-2-422					
					24.91					HD	6.00				3/ 75-2-443	
										CNE	5.75				4/ 75-2-445	
										CNS	1.0					
										CK						
										CG	8.00					
2	OBS	11756003	M3A1 M3	HE	26.95	75-1-285	MIL-S-11354	Mortar Cannon M30	75-14-631	TNT	7.80	75-14-631	Suppl Chg TNT	0.365	8797090	5/ 75-2-427
					26.09											6/ 75-2-429
																7/ 75-2-441
																8/ 75-2-442
3	STD CON STD	01756003 11756003 124	M329A2 M329A1 M329 M329B1	HE HE HE	22.0	9235664	MIL-C-48087	M30 M2	9241268	Comp B	5.75	MIL-C-401 9241265	Suppl Chg	0.365	8797090	11738359
					27.07											8863929
					27.07	8863685	MIL-C-46983	Mortar Cannon M30	8863929	TNT	7.80	8863929	Suppl Chg TNT	0.365	8797090	10520981
					27.07	75-1-301	MIL-C-46982		75-14-643A			75-14-643				75-2-450
					27.07	8863682			75-14-643B							75-2-453
4	STD STD	3881 3881	M335A2 M335A1	Plum Plum	26.00	8886595 8833724	MIL-C-12926 MIL-C-12926	Mortar Cannon M30, M2	8886455 8833741	Plum Plum	3.31 3.31	8886446 8833772	Expel Chg BP	0.18 0.18	8886594 8833755	10534155
					26.00											10521980

CHART 10. 4.2-INCH MORTAR AMMUNITION

BODY					FUZE			PROPELLING ASSEMBLY					PERFORMANCE		PACKING				
MATERIAL	MATERIAL FORM	DWG NO.	OBTURATING MECHANISM		DESIGNATION	TYPE	DWG NO.	PROPELLANT			IGNITION CARTRIDGE		MAX RANGE (YD) yd (m)	MV (FPS) fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.			
			DWG NO.	IGNITION CONTAINER EXTENSION				COM-POSITION	NOM WT (LB)	DWG NO.	DESIGNATION	DWG NO.							
Steel	1/ Forg	75-2-421	1	75-2-426	Without	M8	PD	72-2-311	M6	0.60	12/	71-12-27	M2	8797831	4961 4,460 m	879 255.8 mps	76-1-1189	76-1-1188	
	2/ Tube	75-2-426	2/	75-2-426	Without														
	3/ Forg	75-2-534	3/	75-2-534	Without														
	4/ Tube	75-2-534	4/	75-2-534	Without														
Steel	5/ Forg	75-2-428	5/	75-2-426	Without	M9	PD	73-2-312	M6	0.60		71-12-27	M2	8797831	5050 4,610 m	845 258 mps	7549247	7549248	
	6/ Tube	75-2-430	6/	75-2-426	Without	M557	PD	8863535											
	7/ Forg	75-2-428	7/	8797834	With	M513	VT	1310500											
	8/ Tube	75-2-430	8/	8797834	With	M564	MTSQ	10534285											
Steel	Forg	9241269	11738362	With	15/M513	PROX	1310500				9252305	M2A2	9252205						
					M738	PD	9258682												
					M557	PD	8863535												
					M564	MTSQ	10534285												
Steel	Tub/For Tube Forg	10523981 75-2-453A 75-2-453B	8863660 8797834	With	15/M728	PROX	11718406												
					M732	PROX	11716451												
					M557	PD	8863535	M36A1	0.60	8863617	M2A2	8882287	6180	981	7549247	7549248			
					M564	MTSQ	10534285	M36	0.60	8797836	M2	8797831	5,650 m	299 mps					
Steel	Tube	10534159	8863660	With	M565	MT	10522991	M36A1		8863617	M2A2	8882287	5962 5490 m	1001 305.1 mps	7549247	7549248			
		10521880	8797834	With	M562	MT	10520791	M36A1	0.60	8863617	M2A1 M2	8863425	5290 m M335A1	301.9 mps	7549247	7549248			

CHART 10. 4.2-INCH MORTAR AMMUNITION
(Continued)

LINE NO.	TYPE CLASSIFICATION	CARTRIDGE							PROJECTILE							
		MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	STD	3416 5/	M581	APERS-T	41.25	9210603	PA-PD-2800 Ref	Rifle M40A1 M40A4	9210624	Flch Steel (8 grain) 6/	10.9	9210612 9211488	Tracer Proj M13	0.036	8860550	9210605
2	STD	36885 5/	M368	Dummy	37.93	3596153	FA-PD-MI 2380	Rifle M40A1 M40A1C M40A4	3596154	Inert	7.75	3596154	-	-	-	3596145
3	STD STD	37032 5/	M344A1 M344 3/	HEAT	36.19	7549097 75-1-319	MIL-C-13473	Rifle M40A1 M40A1C M40A4	7549096	Comp B	2.79	7549096	-	-	-	7549103
4	STD	37032 5/	M346A1	HEP-T	37.37	8837335	MIL-C-46250	Rifle M40A1 M40A1C M40A4	8837336	Comp A3	7.72	8837336	Tracer M5A2B1	0.10	3796866	3596145

- 1/ For M344A1
- 2/ For M344
- 3/ Fin Assembly, M8, Dwg. 7549111
- 4/ Inert Propellant loading omitted and Flash Tube replaced with built-up metal bar which provides the same weight and center of gravity as prototype.
- 5/ STD A for USMC use, AMCTC 7781.
- 6/ Expelling Charge M9, 1.23 oz, yellow dye 11 grams, Detonators (4) M86 (XM86) (1) XM87 with relay M7.

CHART 10. 4.2-INCH MORTAR AMMUNITION
(Continued)

BODY					FUZE			PROPELLING ASSEMBLAGE					PERFORM- ANCE		P A C K I N G	
			OBTURATING MECHANISM		DESIG- NATION	TYPE	DWG NO.	PROPELLANT			IGNITION CARTRIDGE		MAX RANGE (YD) yd (m)	MV (FPS) fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
MATE- RIAL	MATE- RIAL FORM	DWG NO.	DWG NO.	IGNITION CONTAINER EXTENSION				COM- POSI- TION	NOM WT (LB)	DWG NO.	DESIG- NATION	DWG NO.				
Steel	1/ Forge	75-2-421	1/ 75-2-426	--	M8	PD	73-2-311	M6 12/	0.60	71-12-27	M2	8797831	5050 4,460 m	945 258.8 mps	76-1-1189	76-1-1188
	2/ Tube	75-2-423	2/ 75-2-426	--												
	3/ Forge	75-2-421	3/ 75-2-534	Without												
	4/ Tube	75-2-423	4/ 75-2-534	Without												
Steel	1/ Forge	75-2-421	1/ 75-2-426		M8	PD	73-2-311	M6 12/	0.60	71-12-27	M2	8797831	5050 4,460 m	845 258.8 mps	76-1-1189	76-1-1188
	2/ Tube	75-2-423	2/ 75-2-426													
	3/ Forg	75-2-421	3/ 75-2-534	Without												
	4/ Tube	75-2-423	4/ 75-2-534	Without												
Steel	Tube/ Forge Tube	8797841	8863660	With	M521 M48A3 14/	PD	7349112 8798219	M36A1	0.06	8863617	M2A2	8882287	6180 5650 m	981 299 mps	7549247	7949248
		8800090	8797834	With	M48A3 13/	PD	7549112	M36 12/	0.60	8797836	M2A1 M2	7521284 8797831	5931 960	7549247	7549248	
Steel	Tube	10534159	8863660	With	M548 M565	MTSQ MT	10526638 10522991	M36A1	0.60	8863617	M2A2	8882287	6180 5650 m	981 299 mps	7549247	7549248

CHART 11. 120-MILLIMETER AMMUNITION

PROJECTILE																	
LINE NO.	TYPE CLASSIFICATION	MSR AMCTCM OR OTCM NO	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO	SPEC NO	MODEL OF CANNON	LOADING ASSEMBLY DWG NO	FILLER		COMPONENTS			METAL PARTS ASSEMBLY DWG NO	BODY	
										COMPOSITION	WT (LB)	KIND	WT (LB)	DWG NO		MATERIAL	MATERIAL FORM
1	STD	36841	M356	AP-T	50.85	7548465	OAC-PD-96	Tank Gun M56	7548465	---	---	Tracer M5 Series	0.10	8796866	8593352	Steel & Aluminum	Forged
2	STD	38009	M469	HEAT-T	31.11	8840529	MIL-P-46251	Tank Gun M58	8840529	Comp B	4.5	Tracer Proj M13 Series	0.036	8860550	8595213	Steel	---
3	STD	36841	M356	HE-T	50.41	8822495	MIL-P-46925	Tank Gun M58	8822494	Comp B	7.84	Tracer M5 Series	0.10	882253	1052346	Steel	Forged
4	STD	37741	M357	Smoke WP-T	50.41	8826888	MIL-S-20601	Tank Gun M56	8826690	WP	7.5	Tracer M7	0.10	8822553	10523470	Steel	Forged
5	STD	36841	M356	TP-T	50.83	7548465	OAC-PD-96	Tank Gun M56	7548466	---	---	Tracer M5A2B1	0.10	8796866	8593614	Steel	Forged

CHART 11A. 120-MILLIMETER A

CARTRIDGE																	
LINE NO.	TYPE CLASSIFICATION	MSR AMCTCM OR OTCM NO	MODEL DESIGNATION	TYPE	NOMINAL WEIGHT (LBS)	ASSEMBLY DWG NO	SPEC NO	MODEL OF CANNON	FILLER		COMPONENTS			BODY			
									COMPOSITION	DWG NO	METAL PARTS DWG NO	KIND	WT (LB)	DWG NO	MATERIAL	MATERIAL FORM	DWG NO
1	LP	DA Ltr 3/83	XM827	APFSDS-T	42.0	12524901	DOD-C-63482 (LAP); DOD-C-63483 (MPTS)	XM256	Depleted Uranium (Penetrator); Aluminum (Sabot)	12524900	12524903	---	---	---	---	---	---
2	STD	08856009	M831	TP-T	30.0	12527126	DOD-C-63480	XM256	Steel Forged	12527102	12527137	Tracer M13	0.036	8860550	Steel	4140	12527128
3	STD	08856008	M865	TPCSDS-T	41.0	12525000	DOD-P-64010	XM256	Steel	12527105	DOD-P-64009	Tracer M13	0.036	8860550	Steel	4140	12525002
4	STD	08856006	M829	APFSDS-T	41.0	12525600	DOD-S-64013 ANSI Y. 14.5 -1973	XM256	Depleted Uranium Penetrator Alum. Sabot	---	12525601	Tracer M13	0.036	8860550	---	Forged	12525601
5	STD	08856007	M830	HEAT-MP-T	53.0	12526822	DOD-C-63486; DOD-C-63488	M256	Comp A3 Type 2	12520618	---	Tracer M13	0.036	8860550	Steel	4140	12526854

1/ Cartridge case is steel base/combustible side wall.
 2/ Fuze - Model M764, Type PIBD, Dwg. No. 12526700

CHART 11. 120-MILLIMETER AMMUNITION

FUZE				PROPELLING ASSEMBLY									PERFORMANCE		PACKING			
DWG NO.	DESIG-NATION	TYPE	DWG NO.	PROPELLING CHARGE ASSEMBLY		CARTRIDGE CASE		PROPELLANT			PRIMER		MAX RANGE (YD/M)	MV (fps/mps)	PROPELLING CHARGE ASSEMBLY		PROJECTILE	
				DESIG-NATION	DWG NO.	DESIG-NATION	DWG NO.	DESIG-NATION	NOM WT (LB)	DESIG-NATION & TYPE	DWG NO.	DWG NO.			DWG NO.	INNER PACK DWG NO.	OUTER PACK DWG NO.	
8592350	-	-	-	M46 (T38E1)	7548559	M109	7548022	M17	29.0	M67 Perc-Elec	7548520	25,290 (23,125 m)	3,500 (1,067 mps)	7548583	7548585	7548586		
8595218	M509A1	FIBD	8799735	M89 (T42E1)	8840528	M111	8593161	M6	22	M86 Perc	8837988	25,290 (23,125 m)	3,750 (1,143 mps)	8800073	8800074	8800072		
10523462	M557	PD	8863535	M45 (T21E1)	8822490	M109 (T25) (Brass)	7548022	M31	12.4	M67 Perc-Elec	7548520	19,910 (18,206 m)	2,500 (762 mps)	7548583	7548587	7548586		
10523470	M557	PD	8863535	M45 (T21E1)	8822490	M109 (T25)	7548022	M31	12.4	M67 Perc Elec (T85E3)	7548520	19,910 (18,206 m)	2,500 (762 mps)	7548583	7548587	7548586		
8593812	-	-	-	M46	7548599	M109	7548022	M17	29.0	M67 Perc-Elec	7548520	25,290 (23,125 m)	3,500 (1,067 mps)	7548583	7548587	7548586		

FUZE			PROPELLING CHARGE ASSEMBLY		CARTRIDGE CASE		PROPELLANT			PRIMER		PERFORMANCE		PACKING		
DESIG-NATION	TYPE	DWG NO.	DESIG-NATION	DWG NO.	DESIG-NATION	DWG NO.	COMPO-SITION	NOM WT (LB)	SPEC. DWG NO.	MODEL	TYPE	DWG NO.	MAX RANGE	MV	INNER PACK DWG NO.	OUTER PACK DWG NO.
N/A	-	-	-	-	1	12524976	JA2 granular	16.0	DOD-P-63493	XM124	Elec	12524974	3000 meters	1600 m/s 5404 f/s	12527260	12527240
N/A	-	-	-	-	1	12524833	DIGL-RP FORM A	27	DOD-P-63492	XM123	Elec	12526327		1140 mps 3740 fps	12527260	12527240
N/A	-	-	-	-	1	12524976	LKL	17.0	DOD-P-64039	XM124	Elec	12524974	7500 meters 8206 yards	1700 m/s 5576 f/s	12527260	12527240
N/A	-	-	JA2	DOD-P-64035	1	12524934	12524934 CASE BASE	17.8	DOD-P-64035	M125	Elec	12525016	-	-	9354465 9354483	12527240
M764	FIBD 2	12526700	-	12526256	-	12526679	DIGL-RP FORM A	7.7 (395 Kg)	DOD-P-63492	XM125	Elec	12526327	-	-	12527220 12527260	12527240

CHART 12. 152-MILLIMETER AMMUNITION

LINE NO.	CARTRIDGE							PROJECTILE								
	TYPE CLASSIFICATION	MSR. AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	STD CON	8966 11756063	M625A1 M625	CTSR	48.5	9252590 9215469	MIL-C-50912 PA-PD-2919	M81 Series M162	9221155	Fch gr Steel	15.2	9219980	--	--	--	9221155
2	STD	5909	M596	Dummy	51.0	9430306	MIL-C-60830	M81	9430306	--	--	--	--	--	--	9430306
3	CON	9193	M657	HE-T	51.5	9223763	MIL-C-48094 PA-PD-3057	M81	9223764	TNT	9.5		Tracer M13	0.033	8860550	9223765
4	STD CON	8965	M409A1 M409	HEAT-T- MP	48.5	9204196	MIL-C-50846 PA-PD-2608	M81 Series M162	9204197	Comp B	6.3	MIL-C-401	Tracer M13	0.033	8860550	10534407 9209390
5	STD	DA Ltr	M409A2	HEAT-T MP	50.5	9323952	MIL-C-63250	M81 M162	9323963	Comp B	6.3	MIL-C-401	Tracer M13	0.033	8860550	10534407
6	CON	9103	M411 (XM411E3)	TP-T	48.8	9210425	MIL-C-600-80	M81 M162	9210426	Sup Chg TNT	0.3	8797090	Tracer	0.033	8860550	10534387
7	CON	9103	M411A1 (XM411E4)	TP-T	49.8	9233376	MIL-C-600-60	M81 M162	9233375	--	--	--	Tracer	0.033	8860550	10534387
8	STD	9103	M411A2 (XM411E5)	TP-T	49.8	9242430	MIL-C-50530	M81 M162	9210436	--	--	--	Tracer M13	0.033	8860550	10551338
9	STD	9103	M411A3 (XM411E7)	TP-T	48.8	9288944	MIL-C-50902	M81 M162	10551938	--	--	--	Tracer M13	0.033	8860550	10551338

1/ Primer consists of Ignition element electrical DWG NO. 9249028;
Ignition assembly DWG NO. 9212218; Tube, DWG NO. 9204182-1 and
Plug Closing, DWG NO. 9204177.

CHART 12. 152-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG NO.	DESIG-NATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER			MAX RANGE vd (m)	MV fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
						DESIG-NATION	DWG NO.	COM-POSITION	NOM WT (LB)	DWG NO.	DESIG-NATION	TYPE	DWG NO.				
Alum	Tube or Forg	9221154	--	--	--	M205 M157	9252619 9227746	M26E1 M189	6.0	9207817	1/ M91	Elec	1/ 9204038	440 400 m	2260	9221407	9221408
Alum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8880419	9229158
Steel	Forg	9229765	M720	PD	9229636	M157	9227746	M26E1	6.0	9207817	M117	Elec	9233541	4376 3000 m	2240	9224908	9224909
Steel	Forg	10534409	M539	PIBD	9212208	M205 M157	9252619 9227746	M26E1	6.0	9207817	M91	Elec	9249028	9000 m	2240	9260120	9212118
Steel	Forg	10534408	M539A1	PIBD	9212208	M205	9252619	M26	6.0	PA-PD- 2615	M91	Elec	9249038	--	2240	9246417	9271646
Steel	Forg	10534388	M557	PD	9863535	M157	9227746	M26E1	6.0	9207817	M91	Elec	9249038	9000 m	2240	9260120	9212118
Steel	Forg	10534328	--	--	--	M157	9227746	M26E1	6.0	9207817	M91	Elec	9249038	9000 m	2240	9260120	9212118
Steel	Forg	10551940	--	--	--	M157	9227746	M26E1	6.0	9207817	M91	Elec	9249038	9000 m	2240	9260120	9212118
Steel	Forg	10551940	--	--	--	M205	9252619	M26E1	6.0	9207817	N/A	Elec	9249028	9000 m	2240	9260120	9212118

CHART 13. 155-MILLIMETER AMMUNITION

LINE NO.	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY NO.	PROJECTILE						
										FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO	KIND	WT (LB)	DWG NO.	
1	STD	36841	M104	Agent	94.6	75-14-296	MIL-S-12846	Gun M2 M2A1 M46	75-14-296	HD Pers	11.70	75-14-296	Burster M6 Tetrytol 2	0.83	9210893	75-4-89
2	STD	36841	M110	Agent	98.49	75-14-317	MIL-S-12846	How M1 M1A1 M1A2 M45 M126 M126A1 M185 M199	75-14-317	H HD Pers	11.70	75-14-317	Burster M6 Tetrytol 2	0.83	9210893	75-4-207
3	STD STD	37870	M121A1 M121	Agent	98.9	8861029	MIL-P-46412	How M1 M1A1 M45 M126 M126A1 M185 M199	8861031	VX Pers	6.30	8861031	Burster Proj M71 Comp B-4 Suppl Chg 1	2.45 0.367	8861032 8797090	7548847
4	STD STD	37870	M121A1 M121	Agent	99.70	8861029	MIL-P-46412	How M1 M1A1 M1A2 M45 M126 M185 M199	8861030	GB Non-Pers	6.5	8861030	Burster Proj M71 Comp B-4 1	2.45 0.367	8861032 8797090	7548847
5	STD	36841	M122	Agent	100.1	9241805	MIL-S-12846	Gun M2 M2A1 M46	9241804	GB Non-Pers	6.5	9241805	Burster M37 Tetrytol M2 Suppl Chg 1	2.72 0.367	73-1-264 8861085 8797090	75-4-208
6	STD	02786003	M718	AT	103	9277852-2 (LAP)	MIL-P-63238	How M1A2 M126 M185 M199	9278078 (MTL PTS)	PBX 0280	1.26 per unit	9278018	Expel Chg Assy (M10 Propellant)	0.112	9272019	9282848
7	STD	01786003	M741	AT	103	9278014-2 (LAP)	MIL-P-63238	How M1A2 M126 M185 M199	9278078 (MTL PTS)	PBX 0280	1.26 per unit	9278018	Expel Chg Assy (M10 Propellant)	0.112	9272019	9282848
8	OBS	37119	MK1	Dummy	95.0	72-1-28	-	How M126 M1 M1A1 M45	-	-	-	-	-	-	-	-

CHART 13. 155-MILLIMETER AMMUNITION

MUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE						PERFORMANCE		PACKING	
MATE- RIAL	MATE- RIAL FORM	DWG NO.	MODEL	TYPE	DWG NO.	PROPELLING CHARGE		PROPELLANT			PRIMER	MAX RANGE yd (m)	MV fps (mps)	PROPELLING CHARGE ASSEMBLY DWG NO.	PROJECTILE DWG NO.
						MOL	DWG NO.	DESIG- NATION	NOM WT (LB)	DWG NO.					
Steel	Forged	75-4-100	M557 M739	PD PD	8863535 9258602	M19 M19A	71-9-94 9226436	M6 M6	31	71-9-94	9/ 10/	NC 18605 SC 25715	NC 2100 SC 2800	7548187	7549274
Steel	Forged	75-4-100	M557 M739 M564	PD PD MTSQ	8863535 9258602 10534285	M3 M4A1 M119 M119A M119A2	8864405 71-9-180 9226436 9325852 9333954	M1 M1 M6 M6 M6	5 13.5 20.5 20.5 20.9	8864406 71-9-180 71-9-269	9/ 10/ 15/	12/ 12/ 12/	12/ 12/	7548187 9234357	7549274
Steel	Forged	7548846	M739 M557 M728 4/ M732	PD PD PROX PROX	9258602 8863535 11718400 11716451	M3 M4A1 M119 M119A1 M119A2	8864405 71-9-180 9226436 9325852 9333954	M1 M1 M6 M6 M6	5 13.5 20.5 20.5 20.9	8864406 71-9-180	9/ 10/ 15/	12/ 12/	12/ 12/	7548187 9234357	7549274
Steel	Forged	7548846	M739 M728 4/ M557 M732	PD PROX PD PROX	9258602 11718400 8863535 11716451	M3 Series M119 M119A1 M119A2	8864405 71-9-180 9226436 9325852 9333954	M1 M1 M6 M6 M6	5 13.5 20.5 20.5 20.9	8864406 75-9-180	9/ 10/ 15/	12/ 12/	12/ 12/	7548187 9234357	7549274 7549275
Steel	Forged	75-4-206	M557 M728 M739	PD VT PD	7549041 11718400 9258602	M19 20/	71-9-94	M6	31	71-9-94	9/ 10/	NC 18605 SC 25715	NC 2100 SC 2800	7548187	7549274
Steel	Forged	9277860 9278078	M577	MTSQ	9236500	M3A1 M4A2 M119 M119A1	8887277 9207624 9226436 9325852	M1 M1 M6 M6	5.0 13.5 20.5 20.5	8864406 71-9-180 71-9-269	M82 M82 M82	17,500 m	650 mps	9234357	9317586 8/pallet
Steel	Forged	9277860 9278078	M577	MTSQ	9236500	M3A1 M4A2 M119 M119A1	8887277 9207624 9226436 9325852	M1 M1 M6 M6	5.0 13.5 20.5 20.5	8864406 71-9-180 71-9-269	M82 M82 M82	17,500 m	650.5 mps	9234357	9317586 8/pallet
Iron	Cast	72-1-28	1907M 17/	Inert	73-3-47	Dummy M2	72-2-54	-	7.37	-	11/	-	-	-	76-3-9

CHART 13. 155-MILLIMETER AMMUNITION
(Continued)

LINE NO.	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE ASSEMBLY NO.	PROJECTILE						METAL PARTS ASSEMBLY DWG NO.
										FILLER			COMPONENTS			
										COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
9	STD	36841	M7	Dummy	95.	72-1-69	-	How M126 M126A1 M1 M1A1 M45 Gun M2 M2A1 M46	-	-	-	-	-	-	-	-
10	STD	36841	M101 (deep cavity)	HE	95.10	75-14-692	MIL-L-0020336 MIL-L-20336	Gun M2 M2A1 M46	-	TNT	14.61	75-14-692	Suppl Chg	0.365	8797090	75-4-80
11	STD	36841	M101 (normal cavity) 7/	HE	95.73	75-14-616	MIL-L-0020336 MIL-L-20336	Gun M2 M2A1 M46	-	TNT	15.48	75-14-616	-	-	-	75-4-80
12	STD	36841	M107 (normal cavity)	HE	95.6	9216352	MIL-P-60377	How M126 M1 M1A1 M1A2 M45 M185	9216352-1 9216352-2	Comp B TNT	15.4 14.6	9216352-1 9216352-2	-	-	-	10535925
13	STD	36841	M107 (deep cavity)	HE	95.6	9216352	MIL-P-60377	How M1 M1A1 M1A2 M45 M126 M185 M199	9216352-1 9216352-2	Comp B TNT	15.4 14.6	9216352-1 9216352-2	Suppl Chg	0.367	8797090	10535925
14	OBS	11756003	M107B2 5/ 16/	HE	95.6	9210072	PA-PD-2742	How M1 M1A1 M45 Gun M2 M2A1 M46	75-14-692 75-14-616	TNT	14.61 15.48	75-14-692 6/ 75-14-616 6/	Suppl Chg	0.367	8797090	75-4-80
15	STD	3982	M449A1 M449 M449E1	HE	95	P133519 8875850 8875849	MIL-P-50538	How M1 M1A1 M1A2 M45 M126 M126A1 M199	P133519 8875850 8875849	Comp A5	2.3	MIL-E-14970	80 M43A1 Gren Expel Chg (M10 Propellant)	0.066	8875900 8875860	8875855

CHART 13. 155-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE						PERFORMANCE		PACKING	
						PROPELLING CHARGE		PROPELLANT		PRIMER					
MATE- RIAL	MATE- RIAL FORM	DWG NO.	MODEL	TYPE	DWG NO.	MODEL	DWG NO.	DESIG- NATION	NOM WT (LB)	DWG NO.		MAX RANGE yd (m)	MV fps (mps)	PROPELLING CHARGE ASSEMBLY DWG NO.	PROJECTILE DWG NO.
Steel	Cast	72-1-70	None	-	-	Dummy M2 Dummy M100 20/	72-2-54 72-2-28	-	7.37 32.20	-	11/	-	-	-	76-3-9
Steel	Forged	75-4-80	M557 M728	PD PROX VT	8863535 11718400	M19 20/	71-9-94	M6 M6	31	71-9-94	9/ 10/	NC 18605 SC 25715	NC 2100 SC 2800	7548187	7549274
Steel	Forged	75-4-80	M557	PD	8863535	M19 20/	71-9-94	M6	31	71-9-94	9/ 10/	NC 18605 SC 25715	NC 2100 SC 2800	7548187	7549274
Steel	Forged	10535927	M729 M557 M564 M732 M582	PD PD MTSQ PROX MTSQ	9258602 8863535 10534285 11718400 9236701	M3 M4A1 M119 M119A1 M119A2	8864405 71-9-180 71-9-94 9226436 9325852 9333954	M1 M1 M6 M6 M6 M6	5 13.5 20.5 20.5 20.5 20.9	8864406 71-9-180 71-9-94 71-9-269 71-9-269	9/ 10/ 15/	12/ 12/	12/ 12/	7548187 9234357	7549275
Steel	Forged	10535927	M729 M557 M564 M728 4/ M732 M582	PD PD MTSQ PROX VT PROX MTSQ	9258602 8863535 10534285 11718400 11718451 9236701	M3 M4A1 M3A1 M4A2 M119 M119A1 M119A2	8864405 71-9-180 8887277 9207624 9226436 9325852 9333954	M1 M1 M6 M6 M6 M6	5 13.5 31 20.9	8864406 71-9-180 71-9-94	9/ 10/ 15/	12/ 12/	12/ 12/	7548187 9234357	7549275
Steel	Forged	75-4-80	M557	PD	8863535	M3 M4A1 M119 3/ 20/	8864405 71-9-180 71-9-94	M1 M1 M6	5 13.5 31	8864406 71-9-180 71-9-94	9/ 10/ 15/	12/ 12/	12/ 12/	7548187	7549274
Steel	Forged	875856	M548 M565 M577	MTSQ MT MTSQ	8864933 10522991 9236500	M3 M3A1 M4 M4A1 M4A2 M119 M119A1 M119A2	8864405 8887277 71-9-180 71-9-180 9207624 9226436 9325852 9333954	M1 M1 M1 M1 M1 M6 M6 M6	5 5 13.5 13.5 13.5 20.5 20.5 20.9	8864406 8887277 71-9-180 71-9-180 9207624 71-9-269 71-9-269	9/ 10/ 15/	13/ 12/	1850	7548187 9234357	7549275

CHART 13. 155-MILLIMETER AMMUNITION
(Continued)

LINE NO.	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJECTILE							
									PROJEC-TILE ASSEMBLY NO.	COM-POSITION	FILLER		COMPONENTS		METAL PARTS ASSEMBLY DWG NO.	
											WT (LB)	DWG NO.	KIND	WT (LB)		DWG NO.
16	STD	10756043	M483A1	HE	102.6	9215220	MIL-P-48749	How M126 M185 M199 M1A2	9215220	Comp A-5	6.25	MIL-E-14970	M42 Gren M46 Gren Expel Chg Assy (M10 Propellant)	- - 0.112	9215340 9215370 9272019	10542902
17	STD	8753	M549 M549A1	HE RA	96.0	9235999 9235999-1	MIL-P-50578	M126 M126A1 M185 M1A2 M199	9235999	Comp B TNT	16.0 15.0	9235999	Suppl Chg	0.307	8097090	9235995
18	STD	01766104	M692	HE	102.5	9298315	MIL-P-48187	How M1A2 M126 M185 M199	9298350	Comp A-5	1.69	MIL-E-14970	Expel Chg (M10 Propellant) 36 AP Mines	0.112	9298360	9298350
19	STD	01766014	M731	HE	102.5	9298316	MIL-P-48187	How M1A2 M126 M185 M199	9298350	Comp A-5	1.69	MIL-E-14970	Expel Chg Assy (M10 Propellant) 36 AP Mines	0.112	9298360	9298350
20	STD	11796005	M712	HEAT	138.0	9305300	MIL-P-63223	How M185 M199	9307011	Comp B	14.75	MIL-C-401 GP				9305300
21	OBS	11756003 04808009	M118A2 M118 M118A1	Illum	102.0	75-14-480	OAC-PD-140	How M126 M1 M1A1 M1A2 M45 Gun 3/ M2 M2A1 M46	75-1-679	Illum	4.30	75-194679	Chgs Ejection 1st	0.118	75-4-201	75-4-120
22	STD STD CST	7466	M485A2 M485A1 M485 Series	Illum	92.0	9214150	PA-PD-2823	How M1 M1A1 M45 M126 M185 M199	9213758	Illum	5.8	9213716	Expel Chg 1st Ld Expel Chg 2d Ld Chg Eject 1st Fire	0.22 0.17 0.2	9213716	9214142
23	STD	36841	M104	Smoke	99.02	75-14-296	MIL-S-12846	Gun M2 M2A1 M46	75	WP	15.60	75-14-296	Burster M6 Tetrytol 2/	0.83	9210893	75-4-89

CHART 13. 155-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLY						PERFORMANCE		PACKING	
MATE- RIAL	MATE- RIAL FORM	DWG NO.	MODEL	TYPE	DWG NO.	PROPELLING CHARGE		PROPELLANT			PRIMER	MAX RANGE yd (m)	MV fps (mps)	PROPELLING CHARGE ASSEMBLY DWG NO.	PROJECTILE DWG NO.
						MODEL	DWG NO.	DESIG- NATION	NOM WT (LB)	DWG NO.					
Steel	Forged	10542902	M577	MTSQ	9236500	M3	8864405	M1	5.0	8864406	9/	9330 m	358.3 mps	7548187	8837839
						M4A2	9207624	M1	13.5	71-9-180	10/	14,320 m	535.2 mps	9234357	
						M119	9226436	M6	20.5	71-9-269	10/	22,400 m	797 mps	9293303	
						M119A1	9325852	M6	20.5	71-9-269	15/	17,740 m	655.8 mps	9234357	
					M119A2	9333954	M6	20.9			17,740 m	655.8 mps	9234357		
Steel	Forged	9236003	M739	PD	9258602	M4A2	9207624	M1 - 01	5.5	8887277	9/	-	-	7548188	8837839
			M557	PD	8863535	M119A1	9325852	Polas-	13.12	9207624	10/			9234357	
			M587	MTSQ	9236701	M203/A1	9281897	alum	26.0		15/				
						18/	9345103	Sulfate							
			M119A2	9333954	M6	20.9									
Steel	Forged	9298354	M577	MTSQ	9236500	M3A1	8887277	M1	5.0	8887277	9/	14,586 m	560.2 mps	7548187	8837839
			M724		117112	M4A2	9207624	M1	13.5	71-9-180	10/	16,044 m	563.5 mps	9234357	
						M119	9226436	M6	20.5	71-9-269	10/				
						M119A1	9325852	M6	20.5	71-9-269	15/				
			M119A2	9333954	M6	20.9									
Steel	Forged	9307001	M740	PIBD	9307466	M3A1	8887277	M1	5.0	8864406	M82	-	-	7548187	9305425 9306435
			(integral to proj)			M4A2	9207624	M1	13.5	71-9-180					
						M119 21/	9226436	M6	20.5	71-9-269					
						M119A1	9325852	M6	20.5	71-9-269					
			M119A2	9333954	M6	20.9	71-9-269								
Steel	Forged Tube (M118- A2B1)	75-4-121	M501	MTSQ	8797484	M3	8864405	M1	5.0	8864406	9/	14,400 m	2000 mps	7548187	7549274
						M4A1	71-9-180	M1	13.5	71-9-180	10/	3/	3/		
						M19	71-9-94	M6	31.0	71-9-94	15/	12,680 m	1760 mps		
						3/					13/	13/			
			20/												
Steel	Forged	9214143	M565	MT	10522991	M3	8864405	M1	5.0	8864406	M82	15,400 m	1850 mps	7548187	7549275
			M577	MTSQ	9236500	M3A1	8887277	M1	5.0	8887277	MK2A4				
						M4A1	71-9-180	M1	13.5	71-9-180					
						M4A2	9207624	M1	13.5	9207624					
						M119 21/	9226436	M6	20.5						
						M119A1	9325852	M6	20.5						
			M119A2	9333954	M6	20.9									
Steel	Forged	75-20-80	M557	PD	8863535	M19	71-9-94	M6	31.0	71-9-94	9/	NC	NC	7548187	7549274
						20/			10/	18605 SC 25715	2100 SC 2800				

CHART 13. 155-MILLIMETER AMMUNITION
(Continued)

LINE NO.	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJEC-TILE ASSEMBLY NO.	PROJECTILE						
										FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
24	OBS	6558	M105	Smoke	98.2	75-14-293	MIL-S-12846	How M1 M1A1 M45 M126	-	WP	15.60	75-14-293	Burster M6 Tetrytol 2/	0.83	9210893	75-4-90
25	STD	9019	M110 M10A1 M10A2 3/	Smoke	98.49	75-14-317 9210424 9217030 3/	MIL-S-12846 PA-PD-2744	How M1 M1A1 M45 M126 Gun M2 M2A1 M46 M126 M185 M199	- 75-14-296 9217031	WP WP	15.60 15.06	75-14-317 9217030 75-14-296 9217030	Burster M6 Tetrytol 2/ Burster M54 M54A1 Comp B	0.83 0.9 1.3	9210893 9223427 9238839	75-4-207 75-4-89 8/
26	STD OBS STD	38841 11756003 04786002	M116 (HC & Rem Ctrs) M116 (Violet only) M116A1	Smoke	94.90 (HC) 88.23 (Clrd) 86.23	8885162-1 (orig to rev) 8885162-25 8885162 Rev D	MIL-P-20512 MIL-P-20512C	How M126 M1 M1A1 M45 Gun 3/ M2 M2A1 M46 How M1A1 M1A2 M185 M199	C15-11-33 (HC) C15-11-65 (Clrd) C15-11-33 C15-11-41	HC Clrd HC	25.84 17.19	C15-11-33 (HC) C15-11-65 (Clrd) C15-11-33 C15-11-41	Expel Chg Assy Expel Chg Assy	0.29 0.34	9207695 9207695	10534904
27	STD	11796005	M823 19/	Training	137.0	9329721	-	M185 M199	-	Inert	-	-	-	-	-	9329721
28	STD	01816002	M804	Practice	95.0	9331794	MIL-P-63346	M1A2 M126A1 M185 M199	-	Inert	-	-	Smk Charge	52 9 ms	9333792	9331795
29	STD LCC-A	01836014	M825	Smoke	102.6	E15-12-259	MIL-P-64007	M1A2 M126A1 M185 M199	E15-12-289	WP	12.75	MIL-C-215	Expel Chg (M10 Propellant) Burster Comp A5	0.117 0.75	D15-12-316 D15-12-272	9352634
30	STD	07856004	M795	HE	103.4	9312769	DOD-P 63252	M1A2 M126 M185 M199	9312769	TNT	23.3	93428*1	SUP Charge	0.367	9797090	9326055

1/ Case, Projectile, Burster, M15, Dwg. 10521645 is used.
 2/ Casing, Burster, M1 Dwg 73-1-168 is used.
 3/ Authorized for use with gun with normal charge only.
 4/ Supplementary charge removed.
 5/ Conversion of Projectile 155MM, HE, M101, Gun.
 6/ With supplementary charge.
 7/ Without supplementary charge.

8/ Conversion of Projectile 155MM, Smoke, WP, M104, Gun.
 9/ Primer, Percussion, MK 2A4, Dwg. 3840362, for How M1 & M1A1 and Gun M2 & M2A1.
 10/ Primer, Percussion-Electric, MK 15 Mod 1, Dwg 74-8-5, and Primer, Electric, MK 34 Mod 0, Dwg 439166, for How M45 and Gun M46.
 11/ Primer, Percussion (Inert), MK 2A4, Dwg 3840362.
 12/

	Zone 5	Zone 7
Max Range Yards	10820	15958
Muzzle Velocity, FPS	1230	1840

M3 Charge, Zones 1-5; M4A1 Charge, Zones 3-7. Flash Reducer M2 used with M4A1 Propelling Charge for night firing
 Flash Reducer M1 used with M19 Propelling Charge.

CHART 13. 155-MILLIMETER AMMUNITION
(Continued)

BODY			FUZE			PROPELLING ASSEMBLAGE						PERFORMANCE		PACKING		
MATERIAL	MATERIAL FORM	DWG NO.	MODEL	TYPE	DWG NO.	PROPELLING CHARGE		PROPELLANT			PRIMER	MAX RANGE yd (m)	MV fps (mps)	PROPELLING CHARGE ASSEMBLY DWG NO.	PROJECTILE DWG NO.	
						MODEL	DWG NO.	DESIGNATION	NOM WT (LB)	DWG NO.						
Steel	Forged	75-20-80	M557	PD	3863535	M3	8864405	M1	5.0	3864406	9/10/	14/	14/	7548187	7549274	
Steel	Forged	75-4-100 75-4-80 4/ 10592945	M739	PD	9258602	M3	8864405	M1	5.0	3864406	9/	12/	12/	7548187 9234357	9549274 7549275	
			M557	PD	3863535	M4A1	71-9-180	M1	13.5	71-9-180	10/	12/	12/			
			M564	MTSQ	10534285	3/										
			M582	MTSQ	9236701	M19 20/	71-9-94	M6	31	71-9-94	15/					
						M3A1	3882277	M1	5.5	8882277	M1					
						M4A2	9207624	M6	13.5	9207624	M6					
						M119	9226436	M6	20.5	9226436	M6					
Steel	Forged	10534905	M501	MTSQ	3797484	M3	8864405	M1	5.0	8864406	9/	12/	13/	7548187 9234357	7549274	
						M4A1	71-9-180	M1	13.5	71-9-180	10/	12/	13/			
Steel	Forged		M565	MT	10522991	M119	9226436	M6	31.0	71-9-94	15/					
						M577	MTSQ	9236500	M119A2	9333954	M6	20.9				
Alum	-	9331160	N/A	-	-	N/A	-	-	-	-	N/A	N/A	-	-	9305335	
Steel	Forged	9331298	M557	PD	3863535	M3A1	3882277	M1	5.5	8882277	9/	-	-	7548187	7549274	
			M739	PD	9258602	M4A2	9207624	M6	20.5	9207624	15/					
			M564	MTSQ	10534285	22/										
			M582	MTSQ	9236701											
Steel	Forged	9352632	M577	MT	9296500	M3	8864405	M1	5.0	8864406	M82	9350 m	358.3	7548187 9234357 9233303 9234357 9234357	8837839	
						M4Series	9207624	M1	13.5	71-9-180		14320 m				
						M119	9226436	M6	20.5	71-9-269		17740 m				
						M119A1	9325852	M6	20.5	71-9-269		17740 m				
						M119A2	9333954	M6	20.9	71-9-269						
						M203 23/	9281897	M30A1	26.0			2500 m				
						M203A1	9345103	M31A1E1	28.0							
Steel	HF-I	9326055	M557	PD	3863535	M3A1	3882277	M1	5.5	-	9/	-	-	-	9329574	
			M739	PD	9258602	M4A2	9207624	M1	13.5							
			M564	MTSQ	10534285	M119	9226436	M6	20.5			15/				
			M732	PROX	11716451	M119A1	9325852	M6	20.5							
						M119A2	9333954	M6	20.9							
						M203	9281897	M31A1E1	26.0							

- 13/ Fired from howitzer.
- 14/ Base charge 1 plus increments 2, 3, 4 & 5: Max Range 10820 yards; Muzzle Velocity 1230 FPS.
- 15/ Primer, Percussion, M82 Dwg 3861197, is used with ammunition when fired from Howitzer, SP, M109, M109A1, M109A2, M109A3 and M199.
- 16/ Projectile, 155MM: HE, M107 B2 w/o Fuze for How M1, M1A1, M46. Obsolete for U.S. Army use. Std A for U.S. Marine Corps use. AMCTC 6558.
- 17/ Fuze, Inert, M1907 obsolete AMCTC 6558.
- 18/ M549, M549A1 projectile not to be fired below charge 7 and only M549A1 can use M203 charge in M199 cannon. Max Range 17,740 (MTRS) MV 650 (M/S)
- 19/ M823 Projectile is the training round for the M712 copperhead projectile only.
- 20/ Propelling Charge M19 Obsolete MSR 11756003
- 21/ Propelling Charge M119 Series cannot be used with M109A1 Howitzer when using the M712 projectile.
- 22/ Projectile M804 cannot be fired above charge 5 and at charge 1.
- 23/ Propelling Charge M203/M203A1 fired from M199 cannon only.

CHART 14. 165-MILLIMETER AMMUNITION

LINE NO.	CARTRIDGE								PROJECTILE							
	TYPE-CLASSIFICATION	MSR. AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	PROJEC-TILE ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWC NO.	KIND	WT (LB)	DWC NO.	
1	STD	4266	M123A1 M123	HEP	65.00	8845042	MIL-C-45467	Gun M135	8845043	Comp A-3	16	8845043	-	-	-	8845046
	Comp A-6									20						
2	STD	8415	M623	TP	65.00	9219045	MIL-C-50413	Gun M135	9219046	Inert	36	9219046	-	-	-	10551955 10543024

1/ Handle Assembly, Dwg 8845053, to Cartridge Case.
 2/ Also Charge, Ignition Supplementary, Black Powder 220 grains, Dwg 8845064.
 3/ Information classified.

CHART 14. 165-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		
MATE- RIAL	MATE- RIAL FORM	DWG NO.	DESIG- NATION	TYPE	DWG NO.	CARTRIDGE CASE		PROPELLANT			PRIMER			MAX. RANGE (YD/M)	MV (fps/mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
						DESIG- NATION	DWG NO.	COM- POSI- TION	NOM WT (LB)	DWG NO.	DESIG- NATION	TYPE	DWG NO.				
Steel	Plate	8845046	M62A2	BD	8886414	M104 1/	8845066	M2 2/	2.12	8845054	M73	Elec	8840278	3/	3/	8796483	8796482
Steel	Plate	10551955	Base Plug	-	-	M104	8895066	M2	2.12	8845054	M73	Elec	8840278	-	-	8796483	8796482

CHART 15. 175-MILLIMETER AMMUNITION

PROJECTILE																
LINE NO.	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	LOADING ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COMPOSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	STD	2819	M468	Dummy	148.7	XP115656	PA-PD-2526	Gun M113 M113A1	--	--	--	Suppl Chg	--	XP107246	XP115656	
2	STD STD	3089	M437A2 M437A1	HE	147.0	8837902	MIL-P-46465	Gun M113 M113A1	--	Comp B	31	8837902	1/ Suppl Chg	0.365	8797090	10520193
											30					

- 1/ For M437A2 and M437A1
- 2/ A fired service primer is used.
- 3/ 35740
- 4/ w/supplchg removed.

CHART 15. 175-MILLIMETER AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE						PERFORMANCE		PACKING	
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	TYPE	DWG NO.	PROPELLING CHARGE ASSEMBLY		PROPELLANT		PRIMER		MAX RANGE yd (m)	MV fps (mps)	INNER PACK DWG NO.	OUTER PACK DWG NO.
						DESIGNATION	DWG NO.	DESIGNATION	NOM WT (LB)	DESIGNATION AND TYPE	DWG NO.				
Steel	--	XP115658	M73	Dummy	8796863	M98	9205873	--	55	2/ M82	--	--	--	--	8857344
Steel	Forg	10520195	M739 M572 or M582 M728 4/ M732	PD PD MTSQ PROX PROX	9258602 8880686 9236700 11718406 11716451	M86 M86A1 & M86A2 Series M124	8837905 9223106	M6 M6	55 57 16.75	M82	8861197	3/ 3000	--	--	8857344

CHART 16. 8-INCH AMMUNITION

LINE NO.	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	LOADING ASSEMBLY DWG NO.	FILLER			COMPONENTS			METAL PARTS ASSEMBLY DWG NO.
										COM-POSITION	WT (LB)	DWG NO.	KIND	WT (LB)	DWG NO.	
1	STD	37838	M426	Agent	197	8860620-1	MIL-P-46678	How M2 M2A1 M47 M2A2 M201A1	8860620-1	GB Non Pers	14.5	8860619	10/	7.0	8860626	10522517
2	STD	37838	M426	Agent	197	8860620-2	MIL-P-46678	How M2 M2A1 M47 M2A2	8860620-2	VX Pers	14.5	8860622	10/	7.0	8860626	10522517
3	OBS	09804004	M14	Dummy	200	72-1-82	--	M201 Series How M2 M2A1 M2A2	--	--	--	--	--	--	--	72-1-82
	STD	09806005	M845	Dummy	200	9340711	ANSI-Y14.5 1973	M47 M201	9333966	--	--	9341806	--	--	--	9335660
4	OBS	37119	MK1A1	Dummy	188.6	--	--	M201 Series How M2 M2A1 M47 M2A2	--	--	--	--	--	--	--	72-1-25
5	OBS	36569	M103	HE	241.07	--	--	Gun M1	75-14-258	TNT	20.9	75-14-256	Booster M21A4		8798183	75-4-87
6	STD	36841	M106	HE	201	--	MIL-P-46258	How M2 M2A1 M47 M2A2 M201 M201A1	9207909	TNT	36.3	9207909	Suppl Chg	0.365	8797050	10534909
7	STD	2873	M404	HE	200	8875941	MIL-P-50257	How M2 M2A2 M47 M2A1 M801 M201A1	8875941	A5	4.9	MIL-E-14970	104 M43A1 Gren	52.1	8875900	8875940
8	STD	12806006	M509A1	HE	206.5	9210140	--	M201 M201A1	9210140	A5	12.07	MIL-E-14970	180 M42 Gren	82.8	9215340	10551896
9	STD	01796002	M650	HE-RA	200	9287994	MIL-P-63142	How M2A2 M201 M201A1	9287993	TNT	26.0	9288022 9288021	Booster Comp A-5	2.0 oz	9288023	9287954
													Booster Aux Comp A-5	0.7 oz	9287977	

- 1/ Zones 1 through 5, Green Bag
- 2/ Zones 5 through 7, White Bag
- 3/ M188 Charge Zone 8
- 4/ M188A1 Charge Zone 8 and 9

- 5/ Primer, Percussion, MK2A4, Dwg 8840362, for How M2, M2A1
- 6/ Primer, Percussion - Electric, MK15 Mod 1, Dwg 74-8-5, and Primer, Electric, MK34 Mod 0, Dwg 439166, for How M47, M65, and Primer, Percussion - Electric, MK15 Mods 2 and 3, for How M2A2
- 7/ Supplementary Charge Removed

- 8/ Primer, Percussion, M82, Dwg 8861 (and M201A1)

- 8/ Primer, Percussion, M82, Dwg 8861197, for M47, M2A2 and M201 (and M201A1)

- 9/ FPS, Reduced Charge $\frac{M9}{2100}$ $\frac{M10}{2600}$
- FPS, Normal Charge 2600 2880

- 9/ FPS, Reduced Charge $\frac{M9}{2100}$ $\frac{M10}{2600}$
- FPS, Normal Charge 2600 2880

- 10/ Booster, Projectile, M83, Comp B-4
- 11/ Inert Material
- 12/ M2 Series M47 Cannon

CHART 16. 8-INCH AMMUNITION

BODY			FUZE			PROPELLING ASSEMBLAGE									PERFORMANCE		PACKING
MATERIAL	MATERIAL FORM	DWG NO.	DESIGNATION	TYPE	DWC NO.	PROPELLING CHARGE ASSEMBLY		PROPELLANT			PRIMER			MAX RANGE (yd/m)	MV (fps/mps)	DWC NO.	
						DESIGNATION	DWG NO.	DESIGNATION	NOM WT (LB)	DWG NO.	DESIGNATION	TYPE	DWG NO.				
Steel	Forg	1052218	M739 M557 M728 7/ M732	PD PD VT PROX	9258602 8863535 11718400 11718451	1/M1 2/M2	8860491 8861374	M1 M1	13.30 28.30	8860491 8861374	5/ 6/ 8/	5/ 6/ 8/	5/ 6/ 6/	16008 (14407m) 12/	11/1380 421 mps (595 mps) 12/	7548346	
Steel	Forg	10522518	M739 M557 M728 7/ M732	PD PD VT PROX	9258602 8863535 11718400 11718451	1/M1 2/M2	8860491 8861374	M1 M1	13.30 28.30	8860491 8861374	5/ 6/ 8/	5/ 8/ 6/	5/ 6/	16008 (14407m) 12/	1950 (595 mps) 12/	7548346	
Steel	Cast	72-1-83	--	--	--	M4	8863354	11/	28.75	8863383	Fired Primer Only	--	--	--	--	76-3-9	
Steel	Cast	9335660	M51A5	Inert	--	M4	8863354	11/	28.75	8863383	Fired Primer Only	--	--	--	--	76-3-9	
Steel	Cast	72-1-25	--	--	--	M4	8863354	11/	28.75	8863383	Fired Primer Only	--	--	--	--	76-3-9	
Steel	Forg	75-4-87	M557	PD	8863535	M13 M10 M9	71-9-227 71-9-213 71-9-208	M6 Smk- less	90.00 92.00 75.00	71-9-227 71-9-213 71-9-208	MK2A4 -	Perc	8840362	--	9/	76-2-78	
Steel	Forg	10534910	M739 M557 M728 7/ M732 M564 M572	PD PD PD VT PROX M739 PD	73-2-214 9258602 8863535 11718400 11718451 10534285 8880696	1/M1 2/M2 3/M188 4/M188A1	8860491 8861374	M1 M1 M30A2 M31A1	13.30 28.30 41.00 49.00	8860491 8861374	5/ 6/ 8/	5/ 6/ 8/	5/ 6/ 8/	16008 (14407m) 12/	1950 (595 mps) 12/	7548346	
Steel	Forg	8875940	M566 (Mod) M577 M548	MT M739 M732 M739	10522991 9236500 10520638	1/M1 2/M2	8860491 8861374	M1 M1	13.30 28.30	8860491 8861374	5/ 6/ 8/	5/ 6/ 8/	5/ 6/ 8/	18368 (16531m) 12/	1950 (595 mps) 12/	7548346	
Steel Alum.	Forg	10551897	M577	MTSQ	9236500	1/M1 1/M2 3/M188 4/M188A1	8860491 8861374	M1	13.30 28.30	8860491 8861374	8/ 6/	8/ 6/	8/ 6/	16,000	594.4	9229038	
Steel	Alloy HF-1	9287993 9287943 9287954	M557 M572 M739	PD PD PD	8863535 8880696 9258602	M1 M2 3/M188 4/M188A1	8860491 8861374	M1 M1 M30A2 M31A1	13.30 28.30 41.00 49.00	8860491 8861374	8/ 8/	Perc	8861197	--	--	9280132	

CHART 17. AMMUNITION FOR SUBCALIBER WEAPONS
(Guns and Howitzers)

LINE NO.	CARTRIDGE						PROJECTILE						FUZE				
	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CALIBER	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	LOADING				METAL PARTS		BODY		DESIGNATION	TYPE	DWG NO.
							ASSEMBLY DWG NO.	ASSEMBLY DWG NO.	FILLER COMPOSITION	WT (LB)	ASSEMBLY DWG NO.	MATERIAL	MATERIAL FORM				
1	OBS	11816011	37MM	M63 MOD1	TP	2.01	8831141	8831142	BP	0.084	8597556	Steel	Bar or Forg	M58	BD Practice	8831146	
2	OBS	11816011	37MM	M492	TP	--	--	--	--	--	--	--	--	--	--	--	
3	STD	37119	37MM	M63	TP	--	--	--	--	--	--	--	--	--	--	--	
4	STD	36841	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
5	STD	36841	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
6	STD	37198	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7	STD	36841	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

CHART 17. AMMUNITION FOR SUBCALIBER WEAPONS
(Guns and Howitzers)

PROPELLING ASSEMBLAGE							PERFORM- ANCE		PACKING		WEAPON			
CARTRIDGE CASE		PROPELLANT		PRIMER			MAX. RANGE (YD)	MV (FPS)	INNER PACK DWG NO.	OUTER PACK DWG NO.	SUBCALIBER ASSEMBLAGE			PARENT GUN CAL & TYPE DESIGNATION
DESIG- NATION	DWG NO.	DESIG- NATION	NOM WT (LB)	DESIG- NATION	TYPE	DWG NO.					GUN CAL & TYPE DESIGN	GUN MOUNT	MOUNT DESIG	
MK1A2 MK1A2B1	8596159	M2	0.56	M23A2	Perc	8831161	4980	1100	8833505	76-1-1263	37MM Gun M12	Ext	--	75MM How M1A1, M2 LVT (A) 4 & LVT (A) 5
--	--	--	--	--	--	--	--	--	--	--	37MM Gun M13	Int	--	105MM How M2A1, M2 Ser, M4 Ser
--	--	--	--	--	--	--	--	--	--	--	37MM Gun M14	Int	--	90MM Gun M1, M1A1, M3
--	--	--	--	--	--	--	--	--	--	--	37MM Gun M15	Int	--	76MM Gun M1A2, M1A1C, M4 on 76MM SP
--	--	--	--	--	--	--	--	--	--	--	37MM Gun M1916	Ext	M5	75MM Pack How M1 LVT (A) 4 & LVT (A) 5
--	--	--	--	--	--	--	--	--	--	--	37MM Gun M1916	Ext	M10	155MM Gun M2 & 8-inch How M1
--	--	--	--	--	--	--	--	--	--	--	37MM Gun M1916	Ext	M13A1	155MM Gun M2 & 155MM How M1, M1A1, M1A2

CHART 18. AMMUNITION FOR 60MM AND 81MM MORTAR TRAINING DEVICE
(SABOT WITH 22-MM SUBCALIBER CARTRIDGES)

C A R T R I D G E								P R O J E C T I L E	
LINE NO.	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CALIBER	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	ASSEMBLY DWG NO.	LOADING	BODY
								FILLER COMPOSITION	MATERIAL
1	STD	06806010	60MM Sabot	M3	Tng	6.25	9328601	N/A	Alum
2	STD	05756032	81MM Sabot	M1	Tng	8.5	9287906	N/A	Alum
3	STD	05756032	22MM	M744	Practice	1.097	9287907	BP .03	Steel
4	STD	05756032	22MM	M745	Practice	1.097	9287908	BP .04	Steel
5	STD	05756032	22MM	M746	Practice	1.097	9287909	BP .06	Steel
6	STD	05756032	22MM	M747	Practice	1.097	9287910	BP .08	Steel

CHART 18. AMMUNITION FOR 60MM AND 81MM MORTAR TRAINING DEVICE
(SABOT WITH 22-MM SUBCALIBER CARTRIDGES)

PERFORMANCE		PROPELLING ASSEMBLAGE		P A C K I N G		
MAXIMUM RANGE	MUZZLE VELOCITY	CARTRIDGE CASE	PROPELLANT	INNER PACK DWG NO.	OUTER PACK DWG NO.	WEAPON
3 to 51 ft 1 to 15 mtrs	--	--	--	--	9329480	60MM M19, M224, M2
3 to 51 ft 1 to 15 mtrs	--	--	--	--	9329480	81MM M1, M29A1, M29
639 ft 195 mtrs	148 fps 45 mps	9299079	CHARGE 1 .03 oz	9322198	9322201	60MM 81MM M19 M1 M224 M29A1 M2 M29
770 ft 235 mtrs	164 fps 50 mps	9299079	CHARGE 2 .04 oz	9322198	9322201	60MM 81MM M19 M1 M224 M29A1 M2 M29
1082 ft 330 mtrs	197 fps 60 mps	9299079	CHARGE 3 .06 oz	9322198	9322201	60MM 81MM M19 M1 M224 M29A1 M2 M29
1427 ft 435 mtrs	230 fps 70 mps	9299079	CHARGE 4 .08 oz	9322198	9322201	60MM 81MM M19 M1 M224 M29A1 M2 M29

CHART 19. AMMUNITION FOR SUBCALIBER 4.2-INCH MORTAR WEAPONS

LINE NO.	CARTRIDGE						PROJECTILE						FUZE				
	TYPE CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CALIBER	MODEL DESIGNATION	TYPE	NOMINAL WT (LB)	LOADING				METAL PARTS		BODY		DESIGNATION	TYPE	DWG NO.
							ASSEMBLY DWG NO.	ASSEMBLY DWG NO.	FILLER COMPOSITION	WT (LB)	ASSEMBLY DWG NO.	MATERIAL	MATERIAL FORM				
1	STD	37119	60MM	M49A2	HE	3.07	75-1-82	75-14-257	Flake TNT	0.34	75-2-288	Steel	Forg	M52A1 2/ M525	PD	73-1-161 8800197	
2	OBS	37344	60MM	M50A2	TP	3.09	75-1-83	75-14-238	1/	0.29	75-2-288	Steel	Forg	M52A1 2/ M525	PD	73-1-161	
3	STD	37119	60MM	M69	Trg.	4.43	9222944	--	--	--	9222944	Iron	Cast	--	--	--	

LINE NO.	CARTRIDGE							PROJECTILE	
	TYPE CLASSIFICATION	MSR NUMBER	CALIBER	MODEL DESIGNATION	TYPE	NOMINAL WT (LBS)	ASSEMBLY DWG NO.	FILLER COMPOSITION	MATERIAL
1	STD	11846006	4.2 In. Sabot	M4	Training	21.4	9357759	N/A	Alum.
2	STD	11846006	22MM	M890	Practice	.97	9357760	Yellow Smk Chg 6 grams	Steel
3	STD	11846006	22MM	M891	Practice	.97	9357761	Yellow Smk Chg 6 grams	Steel
4	STD	11846006	22MM	M892	Practice	.97	9357762	Yellow Smk Chg 6 grams	Steel
5	STD	11846006	22MM	M893	Practice	.97	9357763	Yellow Smk Chg 6 grams	Steel
6	STD	11846006	22MM	M894	Practice	.97	9357764	Yellow Smk Chg 6 grams	Steel
7	STD	11846006	22MM	M895	Practice	.97	9357765	Yellow Smk Chg 6 grams	Steel
8	STD	11846006	22MM	M896	Practice	.97	9357766	Yellow Smk Chg 6 grams	Steel
9	STD	11846006	22MM	M897	Practice	.97	9357767	Yellow Smk Chg 6 grams	Steel

1/ Inert Cast Filler C.
 2/ Fuze, PD, M52 Series Obsolete AMC TC 655

CHART 19. AMMUNITION FOR SUBCALIBER 4.2-INCH MORTAR WEAPONS

PROPELLING ASSEMBLAGE							PERFORMANCE		PACKING		WEAPON			
CARTRIDGE CASE		PROPELLANT		PRIMER			MAX. RANGE (YD) (m)	MV (FPS) (mps)	INNER PACK DWG. NO.	OUTER PACK DWG. NO.	SUBCALIBER ASSEMBLAGE			PARENT GUN CAL. & TYPE DESIGNATION
DESIGNATION	DWG. NO.	DESIGNATION	NOM. WT. (LB)	DESIGNATION	TYPE	DWG. NO.					GUN CAL. & TYPE DESIGN	GUN MOUNT	MOUNT DESIGN	
--	--	M3A1	0.021	M32	Perc	8880637	1978 603 m	Chg 4 518 168 mps	7549170	8796472	60MM Mort M31	LM	--	4.2-inch Mort M30
--	--	M2	0.021	M32	Perc	8880637	1978 603 m	Chg 4 518 168 mps	7549170	8796472	--	--	--	
--	--	--	--	--	--	--	235 72 m	152.5 38.5 mps	--	791562	--	--	--	

PERFORMANCE		PROPELLING ASSEMBLAGE		PACKING		WEAPON
MAXIMUM RANGE	MUZZLE VELOCITY	CARTRIDGE CASE	PROPELLANT	INNER PACK DWG. NO.	OUTER PACK DWG. NO.	MODEL NO.
5 meters	--	N/A	N/A	N/A	16A6.5 German	M30
196 meters 214 yards	44 mps 144 fps	--	Ejec Chg 1 4 grams Prop Chg (BP) .5 grams	N/A	107.11 German	M30
235 meters 256 yards	48 mps 157 fps	--	Ejec Chg 2 4 grams Prop Chg (BP)	N/A	107.11 German	M30
275 meters 301 yards	52 mps 171 fps	--	Ejec Chg 3 4 grams Prop Chg (BP)	N/A	107.11 German	M30
319 meters 349 yards	56 mps 184 fps	--	Ejec Chg 4 4 grams Prop Chg (BP)	N/A	107.11 German	M30
365 meters 399 yards	60 mps 197 fps	--	Ejec Chg 5 4 grams Prop Chg (BP)	N/A	107.11 German	M30
416 meters 455 yards	64 mps 210 fps	--	Ejec Chg 6 4 grams Prop Chg (BP)	N/A	107.11 German	M30
470 meters 514 yards	68 mps 233 fps	--	Ejec Chg 7 4 grams Prop Chg (BP)	N/A	107.11 German	M30
528 meters 577 yards	72 mps 236 fps	--	Ejec Chg 8 4 grams Prop Chg (BP)	N/A	107.11 German	M30

CHART 20. BLANK AMMUNITION

CARTRIDGE										
	TYPE-CLASSIFICATION	MSR, AMCTCM OR OTCM NO.	CALIBER	DESIGNATION	NOMINAL WT (LB)	ASSEMBLY DWG NO.	SPEC NO.	MODEL OF CANNON	CARTRIDGE CASE	
									DESIGNATION	DWG NO.
1	STD	4371	75MM	M337A2	3.25	7549273	MIL-C-45459	Gun - M3, M5 How - M1A1, M1A1C	M9A1 M9A1E 1	8861524 10521899
2	OBS	36841	75MM		3.07	75-1-67	MIL-A-20337	Gun - M3 How - M1A1, M1A1C	M9A1	8861524
3	OBS	36841	75MM		2.68	75-1-107	MIL-A-20337	Gun - M3 How - M1A1, M1A1C	M9A1	8861524
4	OBS	11756003	76MM	M351	4.0	7549272	MIL-A-20337	How - M1A1, M1A1C	M29	71-2-133
5	OBS	11756003	76MM	M355A2	4.33	7549267	MIL-A-20337	Gun - M32, M48	M10B1 (Steel) M10 (Brass)	7548121 71-2-196
6	OBS	11756003	90MM	M394	8.23	7549210	MIL-C-45490	Gun - M36, M41, M54	M27 M27B1	8857214
7	STD	38091	105MM	M395	6.24	7549251	MIL-C-46229	How - M2A1, M2A2 M49, M103, M137	M15 M15B1	8845003

CHART 20. BLANK AMMUNITION

COMPONENT PARTS								PACKING	
CHARGE		PRIMER				CLOSING CUP		INNER PACK DWG NO.	OUTER PACK DWG NO.
COMPOSITION	WT (LB)	TYPE LOADING	DESIG- NATION	TYPE	DWG NO.	MATERIAL	DWG NO.		
Blk. Pwd. Pot. Nit.	1.00	Loose	M1B1A2	Perc	8839474 8839453	Plastic	7549272	7549269	7549268
Blk. Pwd. Sod. Nit.	0.87	Double Pellet	M1B1A2 M1A2	Perc	8839474 8839453	Paper- board	7549253	7549269	7549150
Blk. Pwd. Sod. Nit.	0.43	Single Pellet	M1B1A2 M1A2	Perc	8839474 8839453	Paper- board	7549253	7549269	7549268
Blk. Pwd. Sod. Nit.	0.42	Loose	M1B1A2	Perc	8839474	Paper- board	7549253	7549269	76-1-528
Blk. Pwd.	1.25	Bag	M70	Perc	8838131	Paper- board	7549266	7548523	7548524
Blk. Pwd. Pot. Nit.	1.75	Loose	M1A2	Perc	8839453 8839474	Plastic	7549212	7549250	7549249
Blk. Pwd.	1.7	Loose	M1A2 M1B1A2	Perc	8839453 8839474	Plastic	7549253	7549255	7549255

The proponent of this pamphlet is the U.S. Army Materiel Command. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to the Commander, Headquarters, U.S. Army Armament, Munitions, and Chemical Command (AMSMCDSMA(D)), Dover, NJ 07801.

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