

TECHNICAL MANUAL

ARMY AMMUNITION DATA SHEETS

FOR

DEMOLITION MATERIALS

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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TECHNICAL MANUAL

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**HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 25 July 1994**

**Army Ammunition Data Sheets
for
DEMOLITION MATERIAL**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028-2 (Recommended Changes to Equipment Technical Publications) located in the back of this manual directly to Commander, U.S. Army TACOM, Armament Research, Development and Engineering Center, ATTN: AMSTA-AR-WEL-S, Picatinny Arsenal, NJ 07806-5000. You may also send in your recommended changes via electronic mail or by fax. Our e-mail address is LSB@PICA.ARMY.MIL. Our fax number is DSN 880-4633, Commercial (973) 724-4633. A reply will be furnished to you.

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*This manual supersedes TM 43-0001-38, dated 25 June 1981, including all changes.

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CHAPTER 1

INTRODUCTION

1-1. Purpose

This manual is a reference handbook published as an aid in planning, training, familiarization, and identification of demolition items.

1-2. Scope

a. For each item of materiel, there are illustrations and descriptions together with characteristics and related data. Included in the related data are weights, dimensions, performance data, packing, shipping and storage data, Classification, and logistics control codes (LCC).

b. Information concerning supply operation, and maintenance of the items will be found in the publications referenced for those items. A complete listing of these publications is maintained in DA Pam 310 series indexes.

c. Within this manual, items with the following type-classifications are included:

- (1) Standard (LCC-A), (LCC-B),
- (2) Contingency (CON).
- (3) Limited Procurement (LP).
- (4) Reclassified obsolete (OBS) for regu-

lar Army use, but used by National Guard or Reserve units.

(5) Reclassified OBS for all Army use, but used by Marine Corps, Air Force or Navy Items with the following type-classification are not included: Reclassified OBS for all US. use, No U.S. stocks remain. (Foreign use or stock may remain).

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

1-3. Metric Conversion Chart

For approximate conversions to/from metric measures see table 1-1.

1-4. Quantity-Distance Classes and Storage Compatibility Groups

Quantity-Distance (QD) classes and Storage Compatibility Groups (SCG) listed in this manual are changed. For conversion to new system see table 1-2.

Table 1-1. Metric Conversion Chart

Approximate Conversions to Metric Measures				
Symbol	When You Know	Multiply By	To Find	symbol
LENGTH				
in.	inches	2.5	centimeters	cm
ft.	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km
AREA				
in. ²	square inches	6.5	sq centimeter	cm ²
ft. ²	square feet	0.09	sq meters	m ²
yd ²	square yards	0.8	sq meters	m ²
mi ²	sq miles	2.6	sq kilometers	km ²
acres		0.4	hectares	ha
WEIGHT				
oz	ounces	28	gram	g
lb	pounds	0.45	kilogram	kg
	short tons (2000 lb)	0.9	tonnes	t
VOLUME				
tsp	teaspoons	5	milliliters	ml
Tbsp	tablespoon	15	milliliters	ml
fl oz	fluid ounce	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft ³	cubic feet	0.03	cubic meters	m ³
yd ³	cubic yards	0.76	cubic meters	m ³
TEMPERATURE				
Symbol °F	When You Know Fahrenheit	32	Multiply To Find by 0.55 Celcius	Symbol

Approximate Conversions from Metric Measures				
LENGTH				
mm	millimeter	0.04	inches	in.
cm	centimeters	0.4	inches	in.
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	mile	mi
AREA				
cm ²	square centimeters	0.16	square inches	in ²
m ²	square meters	1.2	square yards	yd ²
km ²	square kilometers	0.4	square miles	mi ²
ha	hectares (10,000m ²)	2.5	acres	

WEIGHT				
kg	grams	0.035	ounces	oz
t	kilograms	2.2	pounds	lb
	tonnes	1.1	short tons	
VOLUME				
ml	milliliters	0.03	fluid ounces	fl oz
l	Liters	2.1	pints	pt
l	Liters	1.06	quarts	qt
l	Liters	0.26	gallons	gal
m ³	cubic meters	35	cubic feet	ft ³
m ³	cubic meters	1.3	cubic yards	yd ³
TEMPERATURE				
Symbol °C	When You Know Celsius	by 1.8	Add To Find 32 Fahrenheit	Symbol °F

Table 1-2. Quantity-Distance Classes and Storage Compatibility Groups

Quantity-distance hazard class ^{1/}		Storage compatibility group ^{1,3/}
Old	New ^{2/}	Typical - New
8	6.1	D
7	1.1	E
6	1.2 (18)	
5	1.2 (12)	F
4	1.2 (08)	G
3	1.2 (04)	C
2	1.3	S
1	1.4	

Footnotes:

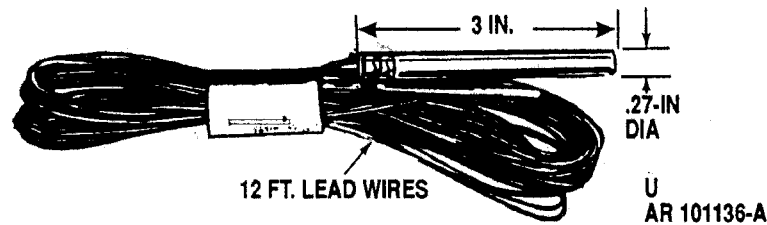
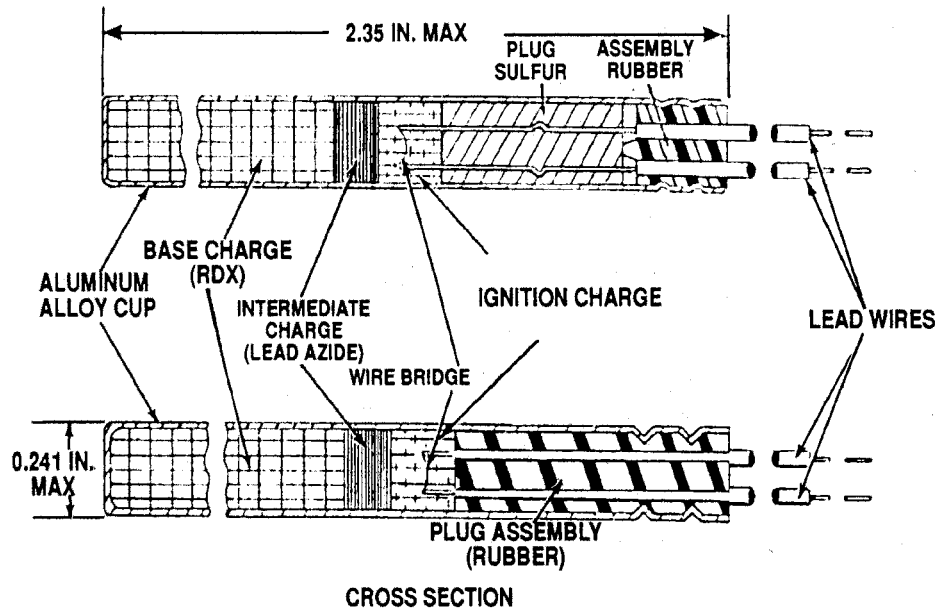
^{1/} New QD and SCG'S are compatible with classes used by NATO nations.

^{2/} Numbers in parenthesis are minimum distance x 100 feet to protect against specific fragment hazards and vary with items and types of ammunition. (Refer to TM 9-1300-206.)

^{3/} There is no simple conversion from old SCG'S to new system. The SCG groups listed in this column are typical for the majority of items in the corresponding listed QD class but do not apply to every individual item in the class. For SCG of individual items refer to TM 9-1300-206.

CHAPTER 2
INITIATING AND PRIMING DEVICES

CAP, BLASTING, ELECTRIC: M6



Type Classification:

Std A OTCM 37041, dtd 26 May 1960.

Use:

Electric Blasting Cap M6 is used to initiate high explosives with a blasting machine or other suitable source of electric power. It is capable of detonating all standard military explosives.

Description:

Blasting Cap M6 consists of a base charge of RDX, an intermediate charge of lead azide and an ignition charge of smokeless powder, potassium chlorate and lead salt of dinitro cresol in an aluminum alloy cup. Two 12-foot lead wires, connected by a bridge wire in the ignition charge, extend through a rubber (or rubber and sulfur) plug assembly in the open end of the cup. Two circumferential crimps secure the plug assembly in the cup.

Functioning:

To function the cap, its leads are connected to a blasting machine. The blasting machine is actuated to produce electrical current which flows through the cap's bridge wire producing heat. If sufficient current is put through the bridge wire, the head ignites the ignition charge which initiates the intermediate charge which, in turn, causes detonation of the base charge.

Tabulated Data:

Container material	-----	Aluminum alloy
	-----	Unpainted
Dimensions	-----	2.35 in. x 0.24 in.
Filler:		
Base charge	-----	RDX
Intermediate charge	-----	Lead azide
Ignition charge	-----	Special mix (e.g. Smokeless Powder)
Method of actuation	-----	Electric current

Shipping and Storage Data:

Quantity-distance class ----- 1.1
Storage compatibility ----- B
DOT shipping classification- Explosive A
DOT designation ----- DETONATORS-
HANDLE
CAREFULLY
UNO serial number ----- 0030
UNO proper shipping name- Detonator,
electric
DODIC ----- M130
Specification ----- MIL-C-14003 A
Packaging ----- 6 per carton, 1
carton per barrier
bag, 25 bags per
fiberboard con-
tainer, 6 contain-
ers (900 caps) per
wooden box (or as
required)

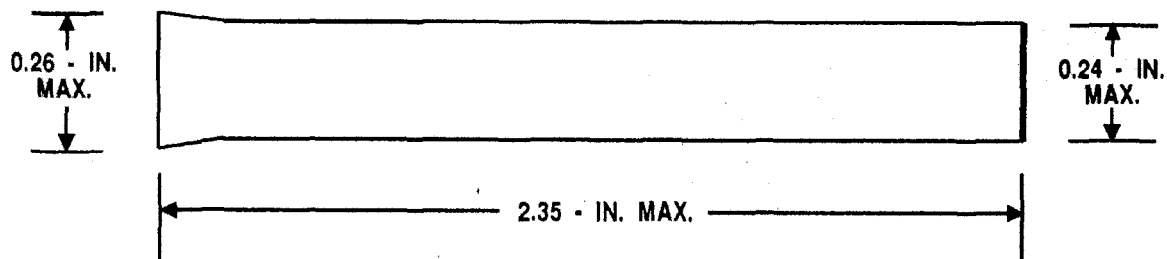
*Packing box:
Weight (w/contents) ----- 113 lb
Dimensions ----- 23-1/8 x 19-1/2x
21 in.
Cube ----- 5.48 cu ft

*NOTE: See DOD Consolidated Ammunition Catalog for complete packing data including NSN'S.

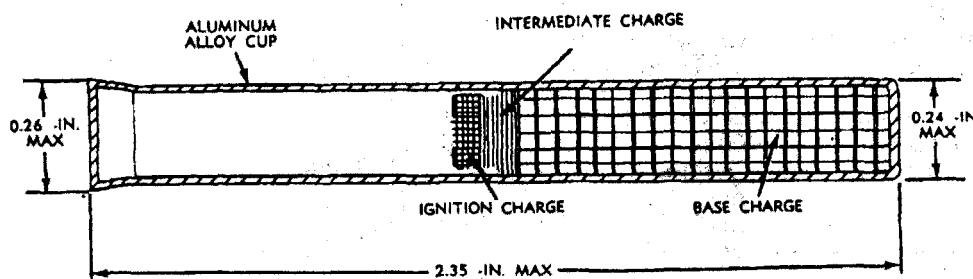
References:

FM 5-250
TM 9-1375-213-12
TM 9-1375-213-34

CAP, BLASTING, NONELECTRIC: M7



U
AR 4769



U
AR 101132

Type Classification:

Std A OTCM 37041, dtd 26 May 1960.

Use:

Nonelectric Blasting Cap M7 is used to detonate all military explosives.

Description

This nonelectric blasting cap consists of an aluminum alloy cup containing an ignition charge of lead styphnate, an intermediate charge of lead azide, and a base charge of RDX. The cup is flared at the mouth to mate with the matching shape of the nipple of a firing device Base Coupling and the flared end facilitates

insertion of time-blasting fuse or detonating cord.

Functioning:

On initiation by time-blasting fuse, primer or detonating cord the ignition charge detonates the intermediate charge which detonated the base charge, in turn. Detonation of the base charge initiates the explosive charge.

Tabulated Data:

Container material -----	Aluminum alloy
Color.....	Unpainted
Dimensions:	
Length -----	2.35 in
Diameter -----	0.24 in. (base); 0.26 in. (mouth)

Filler:

Base charge ----- REX
Intermediate charge ----- Lead azide
Ignition charge ----- Lead styphnate
Method of actuation ----- Flame or impact
(Time-blasting
fuse or detonat-
ing cord or Firing
Device Coupling
Base)

Packaging ----- 6 per carton, 1
carton per vapor-
proof bag, 50 bags
per fiberboard
container, 12
containers (3600
caps) per water-
proof lined
wooden box
10/50/10 = 5000

Shipping and Storage Data:

Quantity-distance class ----- 1.1
Storage compatibility ----- B
DOT shipping classification - Explosive A
DOT designation ----- DETONATORS -
HANDLE
CAREFULLY
UNO serial number ----- 0029
UNO proper shipping name - Detonators,
non-electric
DODIC ----- M131
Drawing No. ----- 8830948

*Packing box:

Weight (w/contents) ----- 114 lb
Dimensions ----- 23-1/8 x 19-1/2x
21 in.
Cube ----- 5.48 cu ft

*NOTE: See DOD Consolidated Ammunition
Catalog for complete packing data including
NSN'S.

References:

FM 5-250
TM 9-1375-213-12
TM 9-1375-213-34