# Defense Intelligence Reference Document

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# Worldwide Fuze Identification Guide

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# Defense Intelligence Reference Document

## Worldwide Fuze Identification Guide

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The Worldwide Fuze Identification Guide supersedes the Foreign Fuze Identification Handbook (U), DST-1160H-029-94, September 1994, which should be destroyed.

Product Requirements are listed in the Foreword.

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# Worldwide Fuze Identification Guide


**Summary**

Historically, tactical deployment of U.S. forces has resulted in exposure to first-seen ordnance and fuzing systems. Proper and timely identification of this material is of importance to tactical commanders, but this task often has been difficult because of a lack of reference material.

The purpose of this document is to keep customers aware of newly encountered fuzes and to provide information valuable in assessing the tactical threat.

No attempt has been made in this document to develop a complete catalog of worldwide fuzes. Such a collection would make the information unmanageable, and it would unnecessarily duplicate existing coverage in other publications.


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# Worldwide Fuze Identification Guide

## Foreword

The purpose of this guide is to provide a comprehensive technical reference on selected foreign fuzes. The document provides data sheet presentation of the physical characteristics of each fuze and the type of ordnance with which the particular fuze is associated. The information is intended to aid U.S. operational forces and other interested agencies in the identification and use of frequently encountered foreign fuzes. Army requirements addressed in this product were contained in PR C513-95-0012/1.

Historically, tactical deployment of U.S. forces has resulted in exposure to first-seen ordnance and fuzing systems. Proper and timely identification of this material is of importance to tactical commanders, but this task has often been difficult because of a lack of reference material. It is the intent of this document to keep abreast of newly encountered fuzes and to provide information valuable in assessing the tactical threat.

This document could not have been prepared were it not for the research and photography work done by the staff of the Explosive Ordnance Disposal Office, Armament Research, Development, and Engineering Center, Picatinny Arsenal, NJ.

Constructive criticism, comments, or suggested changes are encouraged and should be forwarded to the National Ground Intelligence Center, ATTN: IANG-OPS, 220 Seventh Street, NE., Charlottesville, VA 22902-5396.

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# GENERAL

This document provides limited technical data and color illustrations of selected foreign fuzes to aid tactical forces and research and development agencies in their missions. Some of the fuzes covered in this document are quite old and would have been thought to have become obsolete. Recent military operations in several Third World countries, however, have encountered these fuzes. Because of their age, documented coverage has often been withdrawn, making identification difficult. They appear in this document based of their recent encounters—not because they are thought to be first seen ordnance. While no document can provide an all-encompassing coverage of foreign fuzes, this publication will be updated as often as possible to include newer fuzes as they are encountered.

To assist the user of this document, the fuzes covered have been grouped by function (base detonating, point detonating, proximity, etc.). Within each of these categories, they are arranged alphabetically by country of origin and, within these countries, further arranged by designator prefix.

Attempts have been made to show clearly the markings present, body materials, surface appearances, and colors to aid in a positive identification. Color photographs are used to show more precise details to aid in the proper identification of each fuze. Where possible, photographs of the same fuze with and without safety caps, safety pins, and/or rotated to show different physical characteristics or markings may be provided if they provide information to assist in a better examination of the fuze. Some embossed markings shown on the fuze bodies have been highlighted in white to provide better photographic clarity.

One primary method to identify country-of-origin for fuzes is through the markings found on them. In-depth coverage of the markings practices of the various countries would be impractical in this document. One comment, however, should be made concerning Chinese fuzes. Early Chinese fuzes normally used at least one Chinese character in the markings, thus making identification

easier. Recently, however, the Chinese have changed their markings and designator practices on fuzes destined for export. For those fuzes designed and produced by China, new Roman alphabetic codes have been assigned in lieu of the previous Chinese characters. The new designator codes use the same prefix letters to describe the combination of the ordnance the fuze is associated with and the type, by function, of the fuze. Some of these characters and their meanings are listed below:

**Table 1**
**Chinese Fuze Designators**

| Designator | Use |
|---|---|
| MD | Proximity and piezoelectric fuzes for artillery projectiles, rockets, and missiles. |
| MJ | Point-detonating fuzes for rockets. |
| ML | Point-detonating fuzes for artillery projectiles. |
| MP | Point-detonating fuzes for mortar projectiles. |
| MS | Time and mechanical time fuzes for artillery and mortar projectiles. |

Fuzes copied by the Chinese from other countries normally do not carry these new designations. Instead, the Chinese practice is to carry forward the designator assigned by the developing country. For example, the Chinese use the V-90 and M739 designators generated originally by the Former Soviet Union and the United States respectively on two fuzes of current Chinese production. The prefixes for these designators are also expressed in alphabetic codes.

Fuze designators have been listed in this document in English. Many countries of the world use the Cyrillic alphabet and accordingly mark their fuzes with Cyrillic letters. To assist the reader in transliteration of the actual fuze markings to English, the following table may be used.

**TRANSLITERATION SYSTEM FOR RUSSIAN CYRILLIC**
**BGN/PCGN 1947 SYSTEM**
**(Revised in 1970 and 1972)**

| RUSSIAN | ROMAN | RUSSIAN | ROMAN | RUSSIAN | ROMAN |
|---|---|---|---|---|---|
| Аа | a | Кк | k | Хх | kh |
| Бб | b | Лл | l | Цц | ts |
| Вв | v | Мм | m | Чч | ch |
| Гг | g | Нн | n | Шш | sh |
| Дд | d | Оо | o | Щщ | shch |
| Ее | e, ye[1] | Пп | p | Ъъ | " |
| Ёё | ë, yë[2] | Рр | r | Ыы | y |
| Жж | zh | Сс | s | Ьь | ' |
| Зз | z | Тт | t | Ээ | e |
| Ии | i | Уу | u | Юю | yu |
| Йй | y | Фф | f | Яя | ya |

1. The Cyrillic letter "e" is transliterated as "ye" initially, after vowels, and after "ъ" and "ь;" elsewhere as "e."

2. The letter "ë" is not considered a separate letter of the Russian Cyrillic alphabet, and the dieresis is often omitted. When printed in Cyrillic as "ё," it is transliterated as "yë" or "ye" initially, after vowels, and after "ъ" and "ь;" elsewhere as "ë" or "e." The use of the dieresis in the transliterated form was made optional by the BGN and the PCGN in May 1970.

3. Letter sequences "ий," "йа," "йу," "йы," "тс," "шч," "ыа," and the letter "э" immediately following a consonant may be transliterated "i•y," "y•a," "y•u," "y•y," "t•s," "sh•ch," "y•a," and "e" to distinguish those romanizations from the regularly-occurring combinations and digraphs "iy," "ya," "yu," "yy," "ts," "shch," and "e," which represent the letters and combinations "ий," "я," "ю," "ый," "ц," "щ," and "е" following a consonant.

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# Base Detonating (BD)

CHINA
- TYPE 2 . . . . . 9
- TYPE 4 . . . . . 10

FORMER CZECHOSLOVAKIA
- PD 30 . . . . . 11

FORMER SOVIET UNION
- DBR . . . . . 12
- DBT. . . . . 13
- DK-4 . . . . . 14
- KTD . . . . . 15
- MD-7 . . . . . 16
- MD-8 . . . . . 17
- MD-10 . . . . . 18

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| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 108.00 mm | | 1.57 in |
| | 4.25 in | | |
| Exposed | 63.55 mm | OVERALL WT: | 371.00 g |
| | 2.50 in | | 13.09 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectile

COMMENTS: Similar to the Former Soviet Union DBR-2.

**TYPE 2** **CHINA**

## BD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 29.00 mm |
| Overall: | 64.60 mm | | 1.14 in |
| | 2.54 in | | |
| Exposed | 0.00 mm | OVERALL WT: | 71.00 g |
| | 0.00 in | | 2.50 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: 82-mm recoilless rifle projectiles and newer version of the TYPE 56 (RPG-2) grenade

COMMENTS: None.

## CHINA TYPE 4

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 34.00 mm<br>1.34 in |
| Overall: | 66.00 mm<br>2.60 in | | |
| Exposed | 29.00 mm<br>1.14 in | OVERALL WT: | 262.00 g<br>9.24 oz |

MATERIAL: Steel

ORD USED WITH: Armor-piercing high explosive artillery projectile

COMMENTS: Fuze functions after sensing penetration.

**PD 30** **FORMER CZECHOSLOVAKIA**

## BD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 107.00 mm | | 1.57 in |
| | 4.21 in | | |
| Exposed | 64.00 mm | OVERALL WT: | 284.00 g |
| | 2.52 in | | 10.02 oz |

MATERIAL: Steel

ORD USED WITH: Armor-piercing artillery projectile

COMMENTS: Graze sensitive.

## FORMER SOVIET UNION DBR

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 65.00 mm<br>2.56 in |
| Overall: | 113.00 mm<br>4.45 in | | |
| Exposed | 15.60 mm<br>0.61 in | OVERALL WT: | 1140.00 g<br>40.21 oz |

MATERIAL: Steel

ORD USED WITH: Concrete-piercing artillery projectile

COMMENTS: Factory set for delay detonation. Selector can be moved to set for instantaneous. Once moved, the selector cannot be reset.

**DBT** **FORMER SOVIET UNION**

## BDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 29.00 mm |
| Overall: | 64.40 mm | | 1.14 in |
| | 2.54 in | | |
| Exposed | 0.00 mm | OVERALL WT: | 79.00 g |
| | 0.00 in | | 2.79 oz |

MATERIAL: Steel

ORD USED WITH: Grenade

COMMENTS: This fuze is used with the PG-2 and has a self-destruct time of 4.16 seconds.

## FORMER SOVIET UNION DK-4

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 66.00 mm |
| Overall: | 109.00 mm | | 2.60 in |
| | 4.29 in | | |
| Exposed | 11.95 mm | OVERALL WT: | 1233.0 g |
| | 0.47 in | | 43.49 oz |

MATERIAL: Steel

ORD USED WITH: Concrete-piercing artillery projectiles

COMMENTS: Setable for safe (II, K), delay (3), or non-delay (O).

**KTD** **FORMER SOVIET UNION**

## BD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 29.00 mm |
| Overall: | 63.00 mm | | 1.14 in |
| | 2.48 in | | |
| Exposed | 26.00 mm | OVERALL WT: | 91.00 g |
| | 1.02 in | | 3.21 oz |

MATERIAL: Steel

ORD USED WITH: Armor-piercing artillery projectiles

COMMENTS: Delay is regulated by the fuze depending on target thickness.

## FORMER SOVIET UNION MD-7

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 34.15 mm |
| Overall: | 47.35 mm | | 1.34 in |
| | 1.86 in | | |
| Exposed | 17.20 mm | OVERALL WT: | 105.00 g |
| | 0.68 in | | 3.70 oz |

MATERIAL: Steel

ORD USED WITH: Armor-piercing artillery projectiles

COMMENTS: Delay is regulated by the fuze, depending on target thickness.

**MD-8** **FORMER SOVIET UNION**

## BD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 33.00 mm |
| Overall: | 70.00 mm | | 1.30 in |
| | 2.76 in | | |
| Exposed | 33.50 mm | OVERALL WT: | 154.00 g |
| | 1.32 in | | 5.43 oz |

MATERIAL: Steel

ORD USED WITH: Armor-piercing artillery projectiles

COMMENTS: Removable tracer elements.

## FORMER SOVIET UNION MD-10

# Time (T)


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| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 47.30 mm |
| Overall: | 114.00 mm | | 1.86 in |
| | 4.49 in | | |
| Exposed | 70.00 mm | OVERALL WT: | 570.70 g |
| | 2.76 in | | 20.13 oz |

MATERIAL: Steel and brass

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is identical to the Former Soviet D-1-U, and bears the alternate designation of ML-9.

**D-1-U** **CHINA**

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 135.00 mm | | 2.52 in |
| | 5.32 in | | |
| Exposed | 106.00 mm | OVERALL WT: | 550.00 g |
| | 4.17 in | | 19.40 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Ejection-type artillery projectiles

COMMENTS: 85-second maximum setting.

## CHINA MS-1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 66.00 mm |
| Overall: | 97.00 mm | | 2.60 in |
| | 3.82 in | | |
| Exposed | 67.00 mm | OVERALL WT: | 462.00 g |
| | 2.64 in | | 16.29 oz |

MATERIAL: Aluminum and phenolic

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: In-flight arming delay of at least 3 seconds.

**MS-3A** **CHINA**

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 152.00 mm | | 2.52 in |
| | 5.98 in | | |
| Exposed | 123.00 mm | OVERALL WT: | 673.00 g |
| | 4.84 in | | 23.74 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: No visible time settings. Uses centrifugal forces to fire the striker.

## FORMER CZECHOSLOVAKIA VDM

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 77.00 mm |
| Overall: | 68.00 mm | | 3.03 in |
| | 2.68 in | | |
| Exposed | 57.00 mm | OVERALL WT: | 967.00 g |
| | 2.24 in | | 34.11 oz |

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum setting of 75 seconds.

**FH-81B** **FRANCE**

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 66.00 mm |
| Overall: | 110.00 mm | | 2.60 in |
| | 4.33 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 494.00 g |
| | 3.78 in | | 17.42 oz |

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum 5-second time setting.

## FRANCE FR55B

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.50 mm |
| Overall: | 145.50 mm | | 2.46 in |
| | 5.73 in | | |
| Exposed | 95.00 mm | OVERALL WT: | Unknown |
| | 3.74 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: Rocket

COMMENTS: 110-mm LAR rocket system.

**DM 33** **GERMANY**

## ET

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 83.00 mm<br>3.27 in |
| Overall: | 206.95 mm<br>8.15 in | | |
| Exposed | 110.35 mm<br>4.34 in | OVERALL WT: | Unknown<br>Unknown |

MATERIAL: Aluminum

ORD USED WITH: Rockets

COMMENTS: None.

## GERMANY DM 42

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.90 mm |
| Overall: | 134.80 mm | | 2.40 in |
| | 5.31 in | | |
| Exposed | 96.50 mm | OVERALL WT: | Unknown |
| | 3.80 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Can be set manually or by inductive fuze setter. LED for displaying time set.

**DM 52** **GERMANY**

## MTSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 73.00 mm |
| Overall: | 80.10 mm | | 2.87 in |
| | 3.15 in | | |
| Exposed | 69.60 mm | OVERALL WT: | Unknown |
| | 2.74 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: 84-mm Carl Gustav projectiles

COMMENTS: Hand settable in meters.

## GERMANY DM 42

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 88.00 mm | | 1.93 in |
| | 3.46 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 223.00 g |
| | 2.40 in | | 7.87 oz |

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum 54-second time setting. Also known as the M776.

**DM-93** **GERMANY**

## MTSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 90.00 mm<br>3.54 in | | |
| Exposed | 60.00 mm<br>2.36 in | OVERALL WT: | 241.00 g<br>8.50 oz |

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum time setting of 54 seconds.

## GERMANY DM-93A1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall | 90.00 mm<br>3.54 in | | |
| Exposed | 60.00 mm<br>2.36 in | OVERALL WT: | 241.00 g<br>8.50 oz |

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: German design, unknown manufacturer.

**MTSQ 93** **GERMANY**

## MTSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 87.60 mm | | 1.93 in |
| | 3.45 in | | |
| Exposed | 60.10 mm | OVERALL WT: | Unknown |
| | 2.37 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Used in smooth or rifled bore weapons.

## GERMANY DM 123

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.90 mm |
| Overall: | 152.20 mm | | 2.40 in |
| | 5.99 in | | |
| Exposed | 96.00 mm | OVERALL WT: | Unknown |
| | 3.78 in | | Unknown |

MATERIAL: Unknown

ORD USED WITH: Artillery projectiles

COMMENTS: None.

**DM 143** **GERMANY**

## MTSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.90 mm<br>2.40 in |
| Overall: | 117.30 mm<br>4.62 in | | |
| Exposed | 96.40 mm<br>3.80 in | OVERALL WT: | Unknown<br>Unknown |

MATERIAL: Unknown

ORD USED WITH: Artillery projectiles

COMMENTS: None.

## GERMANY DM 153

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.90 mm |
| Overall: | 134.65 mm | | 2.40 in |
| | 5.30 in | | |
| Exposed | 96.40 mm | OVERALL WT: | Unknown |
| | 3.80 in | | Unknown |

MATERIAL: Aluminum and brass

ORD USED WITH: Artillery projectiles

COMMENTS: Used in 155-mm cargo ammunition.

**DM 163** **GERMANY**

## MTSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.90 mm |
| Overall: | 147.80 mm | | 2.40 in |
| | 5.82 in | | |
| Exposed | 96.4 mm | OVERALL WT: | Unknown |
| | 3.80 in | | Unknown |

MATERIAL: Aluminum and brass

ORD USED WITH: Artillery projectiles

COMMENTS: Used with 155-mm cargo ammunition. Similar to the DM 163 but with the DM 1013 booster.

**GERMANY** **DM 163 MOD.**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 83.70 mm |
| Overall: | 118.00 mm | | 3.30 in |
| | 4.65 in | | |
| Exposed | 68.00 mm | OVERALL WT: | Unknown |
| | 2.68 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: 84-mm Carl Gustav projectiles

COMMENTS: Hand settable in meters.

**No. 504** **GERMANY**

## PTT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm<br>2.52 in |
| Overall: | 157.00 mm<br>6.18 in | | |
| Exposed | 128.00 mm<br>5.04 in | OVERALL WT: | 605.00 g<br>21.34 oz |

MATERIAL: Aluminum and brass

ORD USED WITH: Rocket

COMMENTS: This fuze is used with illumination rockets. Maximum setting of 165 seconds.

## GERMANY T-7

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm<br>2.40 in |
| Overall: | 127.50 mm<br>5.01 in | | |
| Exposed | 88.30 mm<br>3.48 in | OVERALL WT: | 990.00 g<br>34.92 oz |

MATERIAL: Unknown

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up function.

## 213 MK 5 (M-1) INDIA

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 118.40 mm | | 2.40 in |
| | 4.66 in | | |
| Exposed | 88.30 mm | OVERALL WT: | 950.00 g |
| | 3.48 in | | 33.51 oz |

MATERIAL: Unknown

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up function.

**INDIA** **213P MK 5 (M-2)**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 118.40 mm | | 2.40 in |
| | 4.66 in | | |
| Exposed | 88.30 mm | OVERALL WT: | 625.00 g |
| | 3.48 in | | 22.05 oz |

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Impact back-up function.

## 213P MK 5 (M-3) INDIA

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 118.40 mm | | 2.40 in |
| | 4.66 in | | |
| Exposed | 88.30 mm | OVERALL WT: | 950.00 g |
| | 3.48 in | | 33.51 oz |

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Impact back-up function.

**INDIA** **213P MK 5 (M-4)**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 83.80 mm<br>3.30 in |
| Overall: | 120.50 mm<br>4.74 in | | |
| Exposed | 69.50 mm<br>2.74 in | OVERALL WT: | 725 g<br>25.57 oz |

MATERIAL: Aluminum

ORD USED WITH: 84-mm Carl Gustav

COMMENTS: Impact superquick back-up function.

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 70.00 mm |
| Overall: | 157.00 mm | | 2.76 in |
| | 6.18 in | | |
| Exposed | 138.00 mm | OVERALL WT: | 140.00 g |
| | 5.43 in | | 4.94 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: Maximum setting of 50 seconds.

## ITALY FB338 A

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.20 mm |
| Overall: | 139.90 mm | | 2.41 in |
| | 5.51 in | | |
| Exposed | 95.50 mm | OVERALL WT: | 550.00 g |
| | 3.76 in | | 19.04 oz |

MATERIAL: Aluminum and brass

ORD USED WITH: Artillery projectiles

COMMENTS: Manually set without equipment.

## KAPTEIN EF-784 SINGAPORE

## ET

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 134.00 mm | | 2.40 in |
| | 5.28 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 770.00 g |
| | 3.80 in | | 27.16 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Uses external electronic fuze setter. PDSQ impact back-up.

**SOUTH AFRICA** **M8611A1**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.25 mm |
| Overall: | 151.45 mm | | 2.41 in |
| | 5.96 in | | |
| Exposed | 95.50 mm | OVERALL WT: | Unknown |
| | 3.76 in | | Unknown |

MATERIAL: Unknown

ORD USED WITH: Artillery projectiles

COMMENTS: Fuze setter used to set time. Impact back-up function.

## M9220A1 SOUTH AFRICA

## TSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 71.00 mm<br>2.80 in | | |
| Exposed | 60.00 mm<br>2.36 in | OVERALL WT: | 188.00 g<br>6.63 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Ejection-type mortar projectile

COMMENTS: Maximum setting of 125 seconds. Impact back-up.

## FORMER SOVIET UNION T-1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 157.00 mm | | 2.52 in |
| | 6.18 in | | |
| Exposed | 128.00 mm | OVERALL WT: | 712.00 g |
| | 5.04 in | | 25.11 oz |

MATERIAL: Aluminum and brass

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum setting of 165 seconds. Impact back-up.

**T-7** **FORMER SOVIET UNION**

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 41.00 mm |
| Overall: | 108.00 mm | | 1.61 in |
| | 4.25 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 363.60 g |
| | 2.40 in | | 12.83 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Ejection-type artillery projectiles

COMMENTS: None.

**FORMER SOVIET UNION** **T-90**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 63.55 mm<br>2.50 in |
| Overall: | 198.50 mm<br>7.81 in | | |
| Exposed | 141.50 mm<br>5.57 in | OVERALL WT: | 694.00 g<br>24.48 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Ejection-type rockets

COMMENTS: None.

**TM-120** **FORMER SOVIET UNION**

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 135.00 mm | | 2.52 in |
| | 5.31 in | | |
| Exposed | 109.00 mm | OVERALL WT: | 876.00 g |
| | 4.29 in | | 30.90 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Artillery projectiles

COMMENTS: No visible time setting markings.

## FORMER SOVIET UNION VM-30

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 136.00 mm | | 2.52 in |
| | 5.35 in | | |
| Exposed | 107.00 mm | OVERALL WT: | 789.00 g |
| | 4.21 in | | 27.83 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Artillery projectiles

COMMENTS: No visible time setting markings.

**VM-30-L** **FORMER SOVIET UNION**

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 136.00 mm | | 2.52 in |
| | 5.35 in | | |
| Exposed | 107.00 mm | OVERALL WT: | 789.00 g |
| | 4.21 in | | 27.83 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Artillery projectiles

COMMENTS: No visible time setting markings.

## FORMER SOVIET UNION VM-30-L1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 108.00 mm | | 1.57 in |
| | 4.25 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 482.00 g |
| | 2.40 in | | 17.00 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is also made by China and uses the same designation.

**V-90** **FORMER SOVIET UNION**

## ET

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 63.00 mm<br>2.48 in |
| Overall: | 209.00 mm<br>8.23 in | | |
| Exposed | 107.00 mm<br>4.21 in | OVERALL WT: | Unknown<br>Unknown |

MATERIAL: Unknown

ORD USED WITH: Rockets

COMMENTS: Fuze time set by remote fuze setter.

## SPAIN EC 002 A

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 59.50 mm |
| Overall: | 153.00 mm | | 2.34 in |
| | 6.02 in | | |
| Exposed | 0.00 mm | OVERALL WT: | Unknown |
| | 0.00 in | | Unknown |

MATERIAL: Unknown

ORD USED WITH: Rockets

COMMENTS: Fuze time set by a remote fuze setter.

**EC 002 B** **SPAIN**

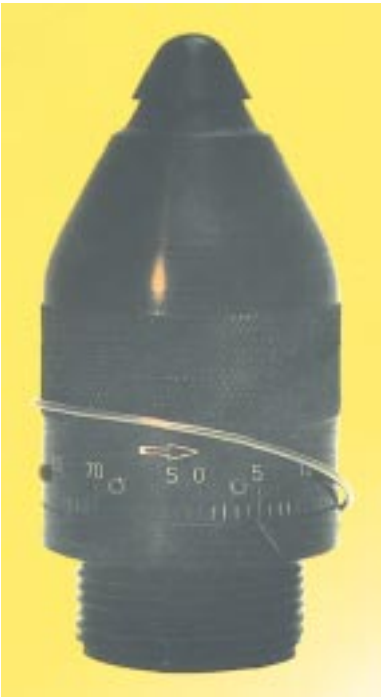
## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 95.30 mm<br>3.75 in | | |
| Exposed | 77.20 mm<br>3.04 in | OVERALL WT: | Unknown<br>Unknown |

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Manual time setting.




## SPAIN MMT 70

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 75.40 mm<br>2.97 in |
| Overall: | 145.00 mm<br>5.71 in | | |
| Exposed | 89.20 mm<br>5.51 in | OVERALL WT: | 1290.00 g<br>507.87 oz |

MATERIAL: Unknown

ORD USED WITH: Artillery

COMMENTS: Naval ordnance fuze. Interchangeable with the U.S. Mk-50 fuze.

**MT B46 A1** **SPAIN**

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 164.50 mm | | 2.40 in |
| | 6.48 in | | |
| Exposed | 95.30 mm | OVERALL WT: | 1038.00 g |
| | 3.75 in | | 36.61 oz |

MATERIAL: Unknown

ORD USED WITH: Rockets

COMMENTS: Modified M564 fuze.

## SPAIN MT B100 C

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 148.47 mm | | 2.4 0 in |
| | 5.85 in | | |
| Exposed | 96.00 mm | OVERALL WT: | Unknown |
| | 3.78 in | | Unknown |

MATERIAL: Unknown

ORD USED WITH: Artillery

COMMENTS: Naval ordnance fuze. Interchangeable with the U.S. MK 393.

**B100 C1** **SPAIN**

## MTSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 82.30 mm<br>3.24 in |
| Overall: | 138.70 mm<br>5.46 in | | |
| Exposed | 89.50 mm<br>3.52 in | OVERALL WT: | 643.00 g<br>22.68 oz |

MATERIAL: Aluminum

ORD USED WITH: 84-mm Carl Gustav recoilless rifle projectiles

COMMENTS: None.

## SWEDEN UNKNOWN

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 116.50 mm | | 2.40 in |
| | 4.59 in | | |
| Exposed | 95.00 mm | OVERALL WT: | 918.00 g |
| | 3.74 in | | 32.38 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Artillery projectiles

COMMENTS: Has impact back-up.

## L34A2 UNITED KINGDOM

## MT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 170.00 mm | | 2.40 in |
| | 6.69 in | | |
| Exposed | 111.00 mm | OVERALL WT: | 1145.00 g |
| | 4.37 in | | 40.38 oz |

MATERIAL: Aluminum and brass

ORD USED WITH: Artillery projectiles

COMMENTS: No impact back-up.

## UNITED KINGDOM 208 MK3

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 124.00 mm | | 2.40 in |
| | 4.88 in | | |
| Exposed | 85.00 mm | OVERALL WT: | 990.00 g |
| | 3.35 in | | 34.92 oz |

MATERIAL: Brass and steel

ORD USED WITH: Artillery projectiles

COMMENTS: Maximum time setting of 80 seconds.

**213 MK4/2** **UNITED KINGDOM**

## PTT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 121.00 mm | | 2.40 in |
| | 4.76 in | | |
| Exposed | 103.00 mm | OVERALL WT: | 929.00 g |
| | 4.06 in | | 32.77 oz |

MATERIAL: Brass and steel

ORD USED WITH: Artillery projectiles

COMMENTS: Has an impact back-up.

## UNITED KINGDOM 221B MK6Be

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 104.00 mm<br>4.09 in |
| Overall: | 103.00 mm<br>4.06 in | | |
| Exposed | 76.00 mm<br>2.99 in | OVERALL WT: | 1269.00 g<br>44.76 oz |

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum setting of 50 seconds.

**M66** **FORMER YUGOSLAVIA**

## PTT

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 58.00 mm |
| Overall: | 65.00 mm | | 2.30 in |
| | 2.56 in | | |
| Exposed | 56.00 mm | OVERALL WT: | 263.00 g |
| | 2.20 in | | 9.28 oz |

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: No impact back-up. Maximum time setting of 35 seconds.

## FORMER YUGOSLAVIA M67

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 79.00 mm |
| Overall: | 76.00 mm | | 3.11 in |
| | 2.99 in | | |
| Exposed | 67.00 mm | OVERALL WT: | 573.00 g |
| | 2.64 in | | 20.21 oz |

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum setting of 38 seconds.

**M67** **FORMER YUGOSLAVIA**

(Reverse Blank)

# Point Detonating (PD)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(Reverse Blank)

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 86.55 mm | | 1.93 in |
| | 3.41 in | | |
| Exposed | 60.00 mm | OVERALL WT: | 189.00 g |
| | 2.36 in | | 6.67 in |

MATERIAL: Aluminum and phenolic

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is a copy of the U.S. M52B2.

**T37A1B1** **AUSTRIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 50.00 mm<br>1.97 in |
| Overall: | 88.00 mm<br>3.46 in | | |
| Exposed | 60.00 mm<br>2.37 in | OVERALL WT: | 239.00 g<br>8.43 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: None.

## BELGIUM NR 2444

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 48.86 mm<br>1.92 in |
| Overall: | 115.00 mm<br>4.53 in | | |
| Exposed | 88.30 mm<br>3.48 in | OVERALL WT: | 570.00 g<br>20.11 oz |

MATERIAL: Steel

ORD USED WITH: 90-mm artillery projectiles

COMMENTS: None.

**NR 2495** **BELGIUM**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61 mm |
| Overall: | 148.42 mm | | 2.40 in |
| | 5.84 in | | |
| Exposed | Unknown | OVERALL WT: | 590.00 g |
| | Unknown | | 20.81 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery and mortar projectiles

COMMENTS: Similar to the U.S. M557 fuze.

## BRAZIL MD 4

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 65.00 mm |
| Overall: | 153.00 mm | | 2.56 in |
| | 6.02 in | | |
| Exposed | 100.00 mm | OVERALL WT: | 465.70 g |
| | 3.94 in | | 16.43 oz |

MATERIAL: Aluminum

ORD USED WITH: Astros rocket

COMMENTS: Although this fuze has a selector, the selector does not function with this model.

**M20C1** **BRAZIL**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA | 40.00 mm<br>1.57 in |
| Overall: | 66.00 mm<br>2.60 in | | |
| Exposed | 47.00 mm<br>1.85 in | OVERALL WT: | 110.00 g<br>3.88 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is a metal copy of the Former Soviet M-5 mortar fuze.

## BULGARIA M-5A

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 80.00 mm | | 1.93 in |
| | 3.15 in | | |
| Exposed | 52.00 mm | OVERALL WT: | 240.00 g |
| | 2.05 in | | 8.47 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: The fuze is mechanically the same as that of the Former Soviet M-6 mortar projectile.

**M-6** **BULGARIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 100.00 mm<br>3.94 in | | |
| Exposed | 55.00 mm<br>2.17 in | OVERALL WT: | 459.00 g<br>16.19 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectile

COMMENTS: Delay or instantaneous settings.

## BULGARIA OFZ-1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 100.50 mm | | 1.57 in |
| | 3.96 in | | |
| Exposed | 54.00 mm | OVERALL WT: | 483.00 g |
| | 2.13 in | | 17.04 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous or delay setting.

**OFZ-2M** **BULGARIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 117.00 mm<br>4.61 in | | |
| Exposed | 75.00 mm<br>2.95 in | OVERALL WT: | 190.80 g<br>6.73 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: None.

## BULGARIA UB2

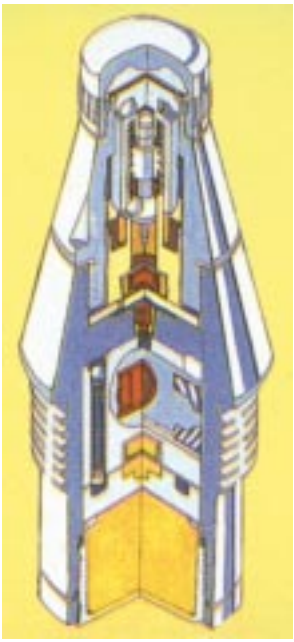
## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 105.71 mm | | 1.57 in |
| | 4.16 in | | |
| Exposed | 58.91 mm | OVERALL WT: | 450.00 g |
| | 2.32 in | | 15.87 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Replaces the V-429, RGM-2M, and VS-5 fuzes.



## VUBS-1M BULGARIA

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 196.00 mm | | 2.52 in |
| | 7.72 in | | |
| Exposed | 141.00 mm | OVERALL WT: | 955.80 g |
| | 5.55 in | | 33.71 oz |

MATERIAL: Aluminum and bakelite

ORD USED WITH: Rocket

COMMENTS: The fuze is the same as the Chinese MJ-4A rocket fuze.

## CHINA DRAO-4A

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 122.00 mm | | 1.57 in |
| | 4.80 in | | |
| Exposed | 76.00 mm | OVERALL WT: | 694.00 g |
| | 2.99 in | | 24.48 oz |

MATERIAL: Steel

ORD USED WITH: Rocket

COMMENTS: Selector markings can be found in Cyrillic or English.

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 83.00 mm | | 1.57 in |
| | 3.27 in | | |
| Exposed | 51.00 mm | OVERALL WT: | 128.50 g |
| | 2.01 in | | 4.53 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: This superquick fuze is a copy of the Former Soviet M-6 mortar fuze. Arming distance of 5 to 50 meters.

**CHINA** **M-6**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 86.55 mm | | 1.93 in |
| | 3.41 in | | |
| Exposed | 60.00 mm | OVERALL WT: | 189.00 g |
| | 2.36 in | | 6.67 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectile

COMMENTS: This is possibly an older model of the Chinese M-6 fuze with a safety pin.

**MM-6** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 50.00 mm |
| Overall: | 118.00 mm | | 1.97 in |
| | 4.65 in | | |
| Exposed | 74.00 mm | OVERALL WT: | 511.10 g |
| | 2.91 in | | 18.03 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is similar to the Former Soviet M-12 and the Chinese MP-4 fuzes. Some versions of the fuze have stamped markings. The fuze has a selector.

## CHINA M-12

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 122.00 mm | | 1.57 in |
| | 4.80 in | | |
| Exposed | 78.00 mm | OVERALL WT: | 683.90 g |
| | 3.07 in | | 24.12 oz |

MATERIAL: Steel

ORD USED WITH: Rocket

COMMENTS: This fuze replaces the V-25 and V-70 PD fuzes. Super-quick or delay settings. Muzzle safe distance of 10 meters.

**MJ-1** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 196.00 mm | | 2.52 in |
| | 7.72 in | | |
| Exposed | 141.00 mm | OVERALL WT: | 940.90 g |
| | 5.55 in | | 33.19 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Rocket

COMMENTS: This fuze is the same as the Former Soviet DKZ-B. Superquick, short delay, or long delay settings. Muzzle safe distance of 120 meters.

## CHINA MJ-4

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm<br>2.52 in |
| Overall: | 196.00 mm<br>7.72 in | | |
| Exposed | 141.00 mm<br>5.55 in | OVERALL WT: | 955.80 g<br>33.71 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Rocket

COMMENTS: Superquick, short delay, or long delay settings. Muzzle safe distance of 120 meters.

**MJ-4A** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 38.90 mm |
| Overall: | 85.00 mm | | 1.53 in |
| | 3.35 in | | |
| Exposed | 35.00 mm | OVERALL WT: | 98.00 g |
| | 1.38 in | | 3.46 oz |

MATERIAL: Plastic

ORD USED WITH: Bounding 75-mm OG-7

COMMENTS: None.

**CHINA** **MJ-7**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 30.00 mm |
| Overall: | 82.00 mm | | 1.18 in |
| | 3.23 in | | |
| Exposed | 63.00 mm | OVERALL WT: | 156.00 g |
| | 2.48 in | | 5.50 oz |

MATERIAL: Steel

ORD USED WITH: 37-mm antiaircraft artillery projectiles

COMMENTS: Detonator safe. Pyrotechnic self-destruct.

**ML-1** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 105.00 mm | | 1.57 in |
| | 4.13 in | | |
| Exposed | 60.00 mm | OVERALL WT: | 433.70 g |
| | 2.36 in | | 15.30 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectile

COMMENTS: This fuze replaces the V-429 fuze. Superquick or delay settings.

**CHINA** **ML-4**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 115.00 mm | | 1.57 in |
| | 4.53 in | | |
| Exposed | 58.00 mm | OVERALL WT: | 438.60 g |
| | 2.28 in | | 15.47 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectile

COMMENTS: Superquick or delay settings.

**ML-4A** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 106.00 mm | | 1.57 in |
| | 4.17 in | | |
| Exposed | 59.00 mm | OVERALL WT: | 570.00 g |
| | 2.32 in | | 20.11 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is reported to be a copy of the Former Soviet V-429 fuze. Superquick or delay settings.

**CHINA** **ML-5**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 158.00 mm | | 2.52 in |
| | 6.22 in | | |
| Exposed | 100.00 mm | OVERALL WT: | 430.90 g |
| | 3.94 in | | 15.20 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Superquick or delay settings.

**ML-7** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 72.00 mm | | 1.57 in |
| | 2.83 in | | |
| Exposed | 37.00 mm | OVERALL WT: | 107.00 g |
| | 1.46 in | | 3.77 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick.

**CHINA** **MP-1A**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 74.00 mm | | 1.57 in |
| | 2.91 in | | |
| Exposed | 37.00 mm | OVERALL WT: | 110.90 g |
| | 1.46 in | | 3.91 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: This superquick fuze is functionally the same as the Chinese MP-1.

**MP-1B** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 119.00 mm | | 1.57 in |
| | 4.69 in | | |
| Exposed | 73.00 mm | OVERALL WT: | 516.40 g |
| | 2.87 in | | 18.22 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is a copy of the Former Soviet M-12. Super-quick or delay settings.

**CHINA** **MP-4**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 96.00 mm | | 1.93 in |
| | 3.78 in | | |
| Exposed | 69.00 mm | OVERALL WT: | 234.20 g |
| | 2.72 in | | 8.26 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick. Muzzle safe distance of 30 meters. Uses a pyrotechnic delay for arming.

**MP-5B** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 46.00 mm |
| Overall: | 93.00 mm | | 1.81 in |
| | 3.66 in | | |
| Exposed | 70.00 mm | OVERALL WT: | 198.00 g |
| | 2.76 in | | 6.98 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick. Muzzle safe distance of 20 meters. Uses a pyrotechnic delay for arming.

**CHINA** **MP-6**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 90.00 mm<br>3.54 in | | |
| Exposed | 49.00 mm<br>1.93 in | OVERALL WT: | 229.00 g<br>8.08 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick. Muzzle safe distance of 30 meters.

**MP-7A** **CHINA**

## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 77.00 mm | | 1.57 in |
| | 3.03 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 103.00 g |
| | 2.40 in | | 3.63 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: This superquick fuze is the same as the Chinese MP-1A.

## CHINA TYPE-1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 122.00 mm | | 1.57 in |
| | 4.80 in | | |
| Exposed | 76.00 mm | OVERALL WT: | 694.01 g |
| | 2.99 in | | 24.48 oz |

MATERIAL: Steel

ORD USED WITH: Rocket

COMMENTS: Modified Former Soviet V-25 fuze. Has an instantaneous or delay setting.

**TYPE-1** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 30.00 mm |
| Overall: | 82.00 mm | | 1.18 in |
| | 3.23 in | | |
| Exposed | 63.00 mm | OVERALL WT: | 129.00 g |
| | 2.48 in | | 4.55 oz |

MATERIAL: Steel

ORD USED WITH: 37-mm antiaircraft ammunition

COMMENTS: This fuze is used in antiaircraft projectiles. It has a pyrotechnic self-destruct.

## CHINA TYPE-1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 103.00 mm | | 1.57 in |
| | 4.06 in | | |
| Exposed | 45.00 mm | OVERALL WT: | 400.00 g |
| | 1.77 in | | 14.11 oz |

MATERIAL: Steel

ORD USED WITH: Recoilless rifle projectiles

COMMENTS: This fuze has a cocked detonator.

**TYPE-1** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 77.00 mm | | 1.57 in |
| | 3.03 in | | |
| Exposed | 46.00 mm | OVERALL WT: | 370.00 g |
| | 1.81 in | | 13.05 oz |

MATERIAL: Steel

ORD USED WITH: Recoilless rifle projectiles

COMMENTS: The fuze below is shown without the booster.

## CHINA TYPE-1 SPECIAL

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.30 in |
| Overall: | 103.00 mm<br>3.50 in | | |
| Exposed | 45.00 mm<br>1.77 in | OVERALL WT: | 394.63 g<br>13.92 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is a copy of the Former Soviet RGM. Instantaneous, non-delay, and delay settings.

## TYPE-3 SPECIAL — CHINA

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 41.00 mm |
| Overall: | 102.00 mm | | 1.61 in |
| | 4.02 in | | |
| Exposed | 48.00 mm | OVERALL WT: | 405.00 g |
| | 1.89 in | | 14.28 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is used with recoilless rifle rounds. Identical to the Chinese Type 1 artillery fuze.

## CHINA TYPE-3 SPECIAL

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 33.00 mm<br>1.30 in |
| Overall: | 89.00 mm<br>3.50 in | | |
| Exposed | 34.00 mm<br>1.34 in | OVERALL WT: | 154.22 g<br>5.44 oz |

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: Improved version of the Former Soviet M-50 fuze. By U.S. standards the fuze is neither bore safe nor detonator safe.

**TYPE-7** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 41.00 mm |
| Overall: | 91.00 mm | | 1.61 in |
| | 3.58 in | | |
| Exposed | 41.00 mm | OVERALL WT: | 394.63 g |
| | 1.61 in | | 13.92 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Instantaneous functioning.

## CHINA TYPE-53

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 68.00 mm | | 1.57 in |
| | 2.68 in | | |
| Exposed | 36.00 mm | OVERALL WT: | 133.00 g |
| | 1.42 in | | 4.69 oz |

MATERIAL: Aluminum

ORD USED WITH: Rocket and mortar projectiles

COMMENTS: This fuze has the same dimensions as the bakelite version. Non-delay. The only safety is a shear wire holding the firing pin.

**TYPE-100-3** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 68.00 mm<br>2.68 in | | |
| Exposed | 36.00 mm<br>1.42 in | OVERALL WT: | 133.00 g<br>4.69 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze has the same dimensions as the aluminum version. Non-delay. The only safety is a shear wire holding the firing pin.

**CHINA** **TYPE-100-3**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 100.00 mm | | 1.57 in |
| | 3.94 in | | |
| Exposed | 55.00 mm | OVERALL WT: | 439.00 g |
| | 2.17 in | | 15.49 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is a copy of the Former Soviet V-429 fuze. Instantaneous or delay settings.

**TYPE-429** **CHINA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 94.00 mm | | 1.57 in |
| | 3.70 in | | |
| Exposed | 40.00 mm | OVERALL WT: | 357.00 g |
| | 1.57 in | | 12.59 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is a copy of the Former Soviet KTM-1. No selector.

## FORMER CZECHOSLOVAKIA KTM-1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm<br>2.52 in |
| Overall: | 115.00 mm<br>4.53 in | | |
| Exposed | 69.00 mm<br>2.72 in | OVERALL WT: | 759.00 g<br>26.77 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Rocket

COMMENTS: This fuze is a copy of the Former Soviet MRV.

**MRV** **FORMER CZECHOSLOVAKIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 91.00 mm | | 1.57 in |
| | 3.58 in | | |
| Exposed | 47.00 mm | OVERALL WT: | 436.00 g |
| | 1.85 in | | 15.38 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous or delay settings.

## FORMER CZECHOSLOVAKIA mz30av

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 103.00 mm | | 1.57 in |
| | 4.06 in | | |
| Exposed | 58.00 mm | OVERALL WT: | 386.00 g |
| | 2.28 in | | 13.62 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is shown without the booster. Instantaneous or delay settings.

**mz-31** **FORMER CZECHOSLOVAKIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 107.00 mm | | 1.57 in |
| | 4.21 in | | |
| Exposed | 60.00 mm | OVERALL WT: | 529.00 g |
| | 2.36 in | | 18.66 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Superquick or delay settings.

## FORMER CZECHOSLOVAKIA nz10bv

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 118.00 mm | | 1.57 in |
| | 4.65 in | | |
| Exposed | 53.00 mm | OVERALL WT: | 538.00 g |
| | 2.09 in | | 18.98 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectile

COMMENTS: Superquick or delay settings.

**nz11M** **FORMER CZECHOSLOVAKIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 38.00 mm |
| Overall: | 68.00 mm | | 1.50 in |
| | 2.68 in | | |
| Exposed | 32.00 mm | OVERALL WT: | 239.00 g |
| | 1.26 in | | 8.43 oz |

MATERIAL: Steel

ORD USED WITH: Rocket

COMMENTS: Air armed, requiring a 250 m/s velocity. Graze sensitive.

## FORMER CZECHOSLOVAKIA nz60v

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 28.00 mm<br>1.10 in |
| Overall: | 87.00 mm<br>3.43 in | | |
| Exposed | 50.00 mm<br>1.97 in | OVERALL WT: | 129.00 g<br>4.55 oz |

MATERIAL: Steel and lead

ORD USED WITH: Mortar projectiles

COMMENTS: Graze sensitive.

**BD 4** **EGYPT**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 30.00 mm<br>1.18 in |
| Overall: | 147.00 mm<br>5.79 in | | |
| Exposed | 74.00 mm<br>2.91 in | OVERALL WT: | 269.00 g<br>9.49 oz |

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze may also be manufactured by Singapore.

## FINLAND IS 72

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 150.00 mm | | 2.40 in |
| | 5.91 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 966.30 g |
| | 3.78 in | | 34.08 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: None.

**FUI 56** **FRANCE**

## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 48.00 mm |
| Overall: | 139.65 mm | | 1.89 in |
| | 5.50 in | | |
| Exposed | 83.85 mm | OVERALL WT: | 524.00 g |
| | 3.30 in | | 18.48 oz |

MATERIAL: Steel

ORD USED WITH: 90-mm artillery projectiles

COMMENTS: None.

## FRANCE FUI F-2

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm<br>2.40 in |
| Overall: | 150.00 mm<br>5.91 in | | |
| Exposed | 96.00 mm<br>3.78 in | OVERALL WT: | 870.90 g<br>30.72 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: None.

**FUI F4** **FRANCE**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 37.00 mm |
| Overall: | 112.00 mm | | 1.46 in |
| | 4.41 in | | |
| Exposed | 59.00 mm | OVERALL WT: | 238.00 g |
| | 2.32 in | | 8.40 oz |

MATERIAL: Aluminum and Steel

ORD USED WITH: Mortar projectiles

COMMENTS: None.

## FRANCE Fu.I.Mo.F1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.70 mm |
| Overall: | 148.80 mm | | 2.39 in |
| | 5.86 in | | |
| Exposed | 95.10 mm | OVERALL WT: | 932.00 g |
| | 3.74 in | | 32.88 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Copy of the U.S. M557 fuze.

**M557** **FRANCE**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 31.00 mm |
| Overall: | 118.00 mm | | 1.22 in |
| | 4.65 in | | |
| Exposed | 53.00 mm | OVERALL WT: | 213.00 g |
| | 2.09 in | | 7.51 oz |

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: None.

## FRANCE Mle-1918-I

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 28.00 mm<br>1.10 in |
| Overall: | 88.00 mm<br>3.46 in | | |
| Exposed | 50.00 mm<br>1.97 in | OVERALL WT: | 134.00 g<br>4.73 oz |

MATERIAL: Brass and lead

ORD USED WITH: Mortar projectiles

COMMENTS: Graze sensitive.

**21/28B Mle 1935M** **FRANCE**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 33.00 mm<br>1.30 in |
| Overall: | 114.00 mm<br>4.49 in | | |
| Exposed | 51.00 mm<br>2.01 in | OVERALL WT: | 207.00 g<br>7.30 oz |

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: None.

## FRANCE RYG-18

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 214.00 mm | | 2.52 in |
| | 8.43 in | | |
| Exposed | 159.00 mm | OVERALL WT: | 912.00 g |
| | 6.26 in | | 32.17 oz |

MATERIAL: Aluminum

ORD USED WITH: 122-mm rockets

COMMENTS: Instantaneous and delay settings.

**S 21** **FRANCE**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 46.00 mm |
| Overall: | 77.00 mm | | 1.81 in |
| | 3.03 in | | |
| Exposed | 54.00 mm | OVERALL WT: | 119.00 g |
| | 2.13 in | | 4.20 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Non-delay or superquick settings.

**FRANCE** **SC.14.E**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 38.00 mm<br>1.50 in |
| Overall: | 115.00 mm<br>4.53 in | | |
| Exposed | 53.00 mm<br>2.10 in | OVERALL WT: | 136.00 g<br>4.80 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Fuze must be rotated to the "(T)F" position prior to firing.

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 32.00 mm<br>1.26 in |
| Overall: | 114.00 mm<br>4.49 in | | |
| Exposed | 54.00 mm<br>2.13 in | OVERALL WT: | 220.00 g<br>7.76 oz |

MATERIAL: Brass and lead

ORD USED WITH: Mortar projectiles

COMMENTS: Graze sensitive.

## FRANCE V-18

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 48.00 mm<br>1.89 in |
| Overall: | 106.00 mm<br>4.17 in | | |
| Exposed | 81.00 mm<br>3.19 in | OVERALL WT: | 381.00 g<br>13.44 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Mortar projectiles

COMMENTS: Delay (R) or instantaneous (I) settings.

**V-19-P** **FRANCE**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.80 mm<br>2.39 in |
| Overall: | 132.00 mm<br>5.20 in | | |
| Exposed | 77.00 mm<br>3.03 in | OVERALL WT: | 481.00 g<br>16.97 oz |

MATERIAL: Aluminum

ORD USED WITH: 120-mm rifled mortar projectiles

COMMENTS: None.

## FRANCE VG-29-A

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | Unknown |
| Overall: | 75.00 mm | | Unknown |
| | 2.95 in | | |
| Exposed | Unknown | OVERALL WT: | 150.00 g |
| | Unknown | | 5.29 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous or short delay.

**ALTA** **FRANCE**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.50 mm |
| Overall: | 175.00 mm | | 2.46 in |
| | 6.89 in | | |
| Exposed | 95.00 mm | OVERALL WT: | Unknown |
| | 3.74 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: Rocket

COMMENTS: 110-mm LAR rocket system.

## GERMANY DM 31

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 88.30 mm | | 1.93 in |
| | 3.48 in | | |
| Exposed | 60.80 mm | OVERALL WT: | Unknown |
| | 2.39 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Delay or superquick settings.

## DM 111 AZ-W GERMANY

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 87.00 mm | | 1.93 in |
| | 3.43 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 293.00 g |
| | 2.40 in | | 10.33 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay settings.

## GERMANY DM-111A1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 87.00 mm | | 1.93 in |
| | 3.43 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 291.00 g |
| | 2.40 in | | 10.26 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay settings. This fuze is more sensitive than the DM-111A1.

**DM-111A2** **GERMANY**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 87.00 mm | | 1.93 in |
| | 3.43 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 201.00 g |
| | 2.40 in | | 7.09 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay settings.

**GERMANY** **DM-111A5**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 28.50 mm |
| Overall: | 56.50 mm | | 1.12 in |
| | 2.22 in | | |
| Exposed | 41.00 mm | OVERALL WT: | Unknown |
| | 1.61 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: 30-mm DEFA projectiles

COMMENTS: Graze sensitive.

**DM 271** **GERMANY**

## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | Unknown |
| Overall: | 78.61 mm | | Unknown |
| | 3.09 in | | |
| Exposed | 42.20 mm | OVERALL WT: | Unknown |
| | 1.66 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: 40-mm L/70 projectiles

COMMENTS: Graze sensitive.

## GERMANY DM 321

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.65 mm |
| Overall: | 124.85 mm | | 2.43 in |
| | 4.92 in | | |
| Exposed | 67.98 mm | OVERALL WT: | Unknown |
| | 2.68 in | | Unknown |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Delay of 10 to 20 ms after impact.

**DM 371** **GERMANY**

## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 18.44 mm |
| Overall: | 45.75 mm | | 0.73 in |
| | 1.80 in | | |
| Exposed | 25.00 mm | OVERALL WT: | Unknown |
| | 0.98 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: 25-mm projectiles

COMMENTS: Graze sensitive.

## GERMANY DM 381

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 21.75 mm |
| Overall: | 63.01 mm | | 0.86 in |
| | 2.48 in | | |
| Exposed | 34.93 mm | OVERALL WT: | Unknown |
| | 1.38 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: 30-mm projectiles

COMMENTS: Graze sensitive.

**NO. 569** **GERMANY**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 88.60 mm | | 1.93 in |
| | 3.49 in | | |
| Exposed | 61.10 mm | OVERALL WT: | Unknown |
| | 2.40 in | | Unknown |

MATERIAL: Plastic

ORD USED WITH: Mortar projectiles

COMMENTS: Supequick or delay settings. Insensitive enough to be suitable for jungle canopy penetration without functioning.

## GERMANY LCMF

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 48.00 mm |
| Overall: | 106.30 mm | | 1.89 in |
| | 4.18 in | | |
| Exposed | 77.30 mm | OVERALL WT: | 372.00 g |
| | 3.04 in | | 13.12 oz |

MATERIAL: Aluminum and brass

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous or delay settings.

**DA 4 A** **INDIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 87.00 mm | | 1.93 in |
| | 3.43 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 201.00 mm |
| | 2.40 in | | 7.09 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles and rockets

COMMENTS: This fuze is similar to the German DM-111.

**IRAN** **DM-111**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm<br>2.40 in |
| Overall: | 151.00 mm<br>5.94 in | | |
| Exposed | 94.00 mm<br>3.70 in | OVERALL WT: | 1048.00 g<br>36.96 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is a copy of the U.S. M572A1.

**M572A1** **IRAN**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 46.00 mm |
| Overall: | 80.00 mm | | 1.81 in |
| | 3.15 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 159.00 g |
| | 2.40 in | | 5.61 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectile

COMMENTS: This fuze is a copy of the Former Yugoslav M70P1. Impact or superquick settings.

**IRAQ** **M70P1**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm<br>2.40 in |
| Overall: | 165.00 mm<br>6.50 in | | |
| Exposed | 85.00 mm<br>3.35 in | OVERALL WT: | 1308.00 g<br>46.13 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectile

COMMENTS: This fuze is intended to be used for penetration, as shown, or for and above ground burst, with a standoff probe that replaces the nose plug.

**M150** **ISRAEL**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 51.00 mm<br>2.01 in |
| Overall: | 63.00 mm<br>2.48 in | | |
| Exposed | 35.00 mm<br>1.38 in | OVERALL WT: | 343.00 g<br>12.10 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Copy of the British No. 161 fuze.

## ISRAEL No. 161

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 36.00 mm |
| Overall: | 106.00 mm | | 1.42 in |
| | 4.17 in | | |
| Exposed | 54.00 mm | OVERALL WT: | 294.00 g |
| | 2.13 in | | 10.37 oz |

MATERIAL: Aluminum and brass

ORD USED WITH: Mortar projectiles

COMMENTS: Non-selectable fuze.

**SF-M2** **ISRAEL**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 45.00 mm |
| Overall: | 125.00 mm | | 1.78 in |
| | 4.92 in | | |
| Exposed | 102.00 mm | OVERALL WT: | 362.00 g |
| | 4.02 in | | 12.77 oz |

MATERIAL: Aluminum

ORD USED WITH: 2.75 in rockets

COMMENTS: Graze sensitive. Similar to the U.S. M423 and M427 fuzes.

**ITALY** **FB-225C**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 50.00 mm |
| Overall: | 110.00 mm | | 1.97 in |
| | 4.33 in | | |
| Exposed | 83.00 mm | OVERALL WT: | 583.00 g |
| | 3.27 in | | 20.56 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Superquick or delay settings.

**FB-306** **ITALY**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.00 mm<br>2.44 in |
| Overall: | 203.00 mm<br>7.99 in | | |
| Exposed | 95.00 mm<br>3.74 in | OVERALL WT: | 922.00 g<br>32.52 oz |

MATERIAL: Aluminum

ORD USED WITH: Naval projectile

COMMENTS: None.

## ITALY OP 76 Mod.1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 87.60 mm<br>3.44 in | | |
| Exposed | 60.10 mm<br>2.36 in | OVERALL WT: | 200.00 g<br>7.05 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick.

**PD AJV 111** **ITALY**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 88.30 mm<br>3.47 in | | |
| Exposed | 60.80 mm<br>2.39 in | OVERALL WT: | 225 g<br>7.94 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay.

**ITALY** **PD AJV 111 A3**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 46.00 mm |
| Overall: | 91.00 mm | | 1.81 in |
| | 3.58 in | | |
| Exposed | 67.00 mm | OVERALL WT: | 204.30 g |
| | 2.64 in | | 7.21 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze has a protruding striker located beneath a plastic cap.

**PDB 335** **ITALY**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm<br>2.52 in |
| Overall: | 212.00 mm<br>8.35 in | | |
| Exposed | 112.00 mm<br>4.41 in | OVERALL WT: | 1814.00 g<br>63.99 oz |

MATERIAL: Steel

ORD USED WITH: 200-mm rockets

COMMENTS: Instantaneous or delay settings.

## NORTH KOREA TYPE-20

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 104.00 mm | | 1.57 in |
| | 4.09 in | | |
| Exposed | 75.00 mm | OVERALL WT: | 668.00 g |
| | 2.95 in | | 23.56 oz |

MATERIAL: Steel

ORD USED WITH: Rocket

COMMENTS: None.

**TYPE-107** **NORTH KOREA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 48.00 mm |
| Overall: | 90.50 mm | | 1.89 in |
| | 3.56 in | | |
| Exposed | 63.30 mm | OVERALL WT: | Unknown |
| | 2.49 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Will not arm if the propellant charge is below the minimum standard level.

## PHILIPPINES R77 FMS2-A2

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 48.00 mm<br>1.89 in |
| Overall: | 100.00 mm<br>3.94 in | | |
| Exposed | 73.00 mm<br>2.87 in | OVERALL WT: | 212.00 g<br>7.48 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: None.

**R77 FM3** **PHILIPPINES**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 43.00 mm<br>1.69 in |
| Overall: | 117.00 mm<br>4.61 in | | |
| Exposed | 84.00 mm<br>3.31 in | OVERALL WT: | 430.90 g<br>15.20 oz |

MATERIAL: Aluminum

ORD USED WITH: 70-mm rocket

COMMENTS: None.

**PHILIPPINES** **R77 FRK3**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | Unknown |
| Overall: | 90.50 mm | | Unknown |
| | 3.56 in | | |
| Exposed | 63.30 mm | OVERALL WT: | Unknown |
| | 2.49 in | | Unknown |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Will not arm if propellant charge is below the minimum standard level.

**FM4-A2** **PHILIPPINES**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 116.70 mm<br>4.59 in | | |
| Exposed | 89.30 mm<br>3.52 in | OVERALL WT: | Unknown<br>Unknown |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Has a large impeller. Used on 60-mm and 81-mm mortar projectiles dropped from aircraft cluster bombs.

## PHILIPPINES R77 CB4

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 80.00 mm | | 1.57 in |
| | 3.15 in | | |
| Exposed | 42.00 mm | OVERALL WT: | 310.00 g |
| | 1.65 in | | 10.93 oz |

MATERIAL: Steel

ORD USED WITH: 37-mm antiaircraft artillery projectiles

COMMENTS: Copy of the Former Soviet MG-37 fuze. Pyrotechnic self-destruct.

**MG-37** **POLAND**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 79.57 mm | | 1.57 mm |
| | 3.13 in | | |
| Exposed | 49.53 mm | OVERALL WT: | 168.00 g |
| | 1.95 in | | 5.93 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Removable end cap.

## ROMANIA M6-R

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 80.00 mm | | 1.57 in |
| | 3.15 in | | |
| Exposed | 40.00 mm | OVERALL WT: | 166.00 g |
| | 1.57 in | | 5.86 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is mechanically the same as the Former Soviet M-6 mortar fuze.

**SH82** **ROMANIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 114.00 mm | | 1.57 in |
| | 4.49 in | | |
| Exposed | 72.00 mm | OVERALL WT: | 187.00 g |
| | 2.83 in | | 6.60 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze can also be used in recoilless rifle rounds.

## ROMANIA 346E

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 31.35 mm<br>1.23 in |
| Overall: | 115.00 mm<br>4.53 in | | |
| Exposed | 50.00 mm<br>1.97 in | OVERALL WT: | 207.00 g<br>7.30 oz |

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: Copy of the French RYG-18 fuze.

**UNKNOWN** **SAUDI ARABIA**

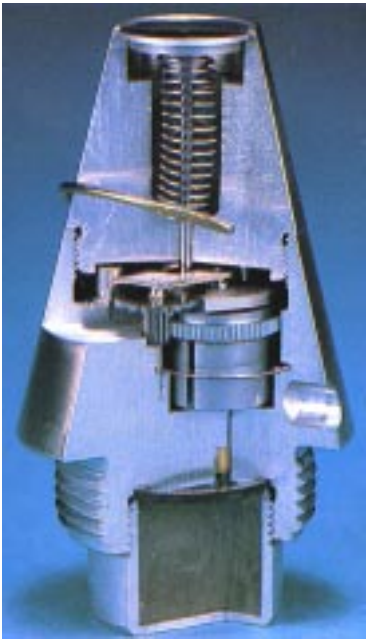
## PD

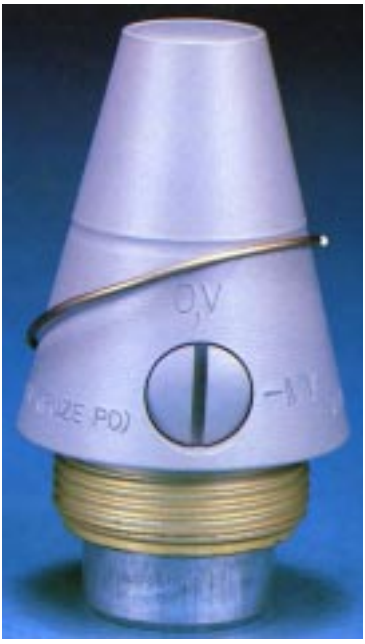
| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 87.50 mm | | 1.93 in |
| | 3.44 in | | |
| Exposed | Unknown | OVERALL WT: | 201.00 g |
| | Unknown | | 7.10 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay function.





| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | Unknown |
| Overall: | 146.50 mm<br>5.77 in | | Unknown |
| Exposed | 74.00 mm<br>2.91 in | OVERALL WT: | 271.00 g<br>9.56 oz |

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Removable nose cap.

**SF-1** **SINGAPORE**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 154.00 mm | | 2.40 in |
| | 6.06 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 771.80 g |
| | 3.78 in | | 27.22 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Has a superquick or delay selector.

## SOUTH AFRICA M841A1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 89.80 mm<br>3.54 in | | |
| Exposed | 61.50 mm<br>2.42 in | OVERALL WT: | 200.00 g<br>7.05 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Copy of U.S. fuze.

**M525** **SOUTH KOREA**

## PDSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm<br>2.40 in |
| Overall: | 150.60 mm<br>5.93 in | | |
| Exposed | 94.50 mm<br>3.72 in | OVERALL WT: | 521.00 g<br>18.38 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Copy of U.S. fuze.

## SOUTH KOREA M526

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 30.00 mm<br>1.18 in |
| Overall: | 82.00 mm<br>3.23 in | | |
| Exposed | 62.00 mm<br>2.44 in | OVERALL WT: | 171.00 g<br>6.03 oz |

MATERIAL: Steel

ORD USED WITH: 37-mm antiaircraft artillery projectiles

COMMENTS: Pyrotechnic self-destruct.

**A-37U** **FORMER SOVIET UNION**

## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 20.00 mm<br>0.79 in |
| Overall: | 68.00 mm<br>2.68 in | | |
| Exposed | 39.00 mm<br>1.54 in | OVERALL WT: | 49.05 g<br>1.73 oz |

MATERIAL: Steel

ORD USED WITH: 30-mm projectiles

COMMENTS: Graze sensitive. Pyrotechnic self-destruct.

## FORMER SOVIET UNION A-670M

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 20.00 mm<br>0.79 in |
| Overall: | 62.00 mm<br>2.44 in | | |
| Exposed | 32.00 mm<br>1.26 in | OVERALL WT: | 50.69 g<br>1.79 oz |

MATERIAL: Steel

ORD USED WITH: 30-mm projectiles

COMMENTS: This fuze is shown without the booster.

**AG-30** **FORMER SOVIET UNION**

## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 30.00 mm |
| Overall: | 83.00 mm | | 1.18 in |
| | 3.27 in | | |
| Exposed | 64.00 mm | OVERALL WT: | 168.00 g |
| | 2.52 in | | 5.93 oz |

MATERIAL: Steel

ORD USED WITH: 37-mm antiaircraft artillery projectiles

COMMENTS: Pyrotechnic self-destruct time of 10 to 12 seconds.

## FORMER SOVIET UNION B-37

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 63.00 mm |
| Overall: | 196.00 mm | | 2.48 in |
| | 7.72 in | | |
| Exposed | 141.00 mm | OVERALL WT: | 935.00 g |
| | 5.55 in | | 32.99 oz |

MATERIAL: Aluminum and bakelite

ORD USED WITH: Rocket

COMMENTS: This fuze has no designation markings. Superquick (O), long delay ($\beta$), or short delay (M) settings.

**DKZ-B** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 131.00 mm<br>5.16 in | | |
| Exposed | 77.00 mm<br>3.03 in | OVERALL WT: | 196.00 g<br>6.91 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is a modified version of the GK-2 series of fuzes.

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 98.00 mm | | 1.57 in |
| | 3.86 in | | |
| Exposed | 52.00 mm | OVERALL WT: | 430.92 g |
| | 2.05 in | | 15.20 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: This is an adiabatic (pneumatic air column) fuze. Instantaneous (O) or delay (3) settings.

**GVMZ** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 107.00 mm | | 1.52 in |
| | 4.21 in | | |
| Exposed | 62.00 mm | OVERALL WT: | 430.92 g |
| | 2.44 in | | 15.20 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: This is an adiabatic (pneumatic air column) fuze. Instantaneous or delay settings.

## FORMER SOVIET UNION GVMZ-7

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 98.00 mm | | 1.57 in |
| | 3.86 in | | |
| Exposed | 43.00 mm | OVERALL WT: | 349.27 g |
| | 1.69 in | | 12.32 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Improved version of the KTM-1 fuze.

**KTM-1-U** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 97.00 mm | | 1.57 in |
| | 3.82 in | | |
| Exposed | 40.00 mm | OVERALL WT: | 278.00g |
| | 1.57 in | | 9.81oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This is used with smoke projectiles.

**FORMER SOVIET UNION** **KTM-2**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 94.00 mm | | 1.57 in |
| | 3.70 in | | |
| Exposed | 40.00 mm | OVERALL WT: | 354.00 g |
| | 1.57 in | | 12.49 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: The MG-57 fuze without a self-destruct feature.

**MG-N** **FORMER SOVIET UNION**

## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 83.00 mm | | 1.57 in |
| | 3.27 in | | |
| Exposed | 45.00 mm | OVERALL WT: | 334.00 g |
| | 1.77 in | | 11.78 oz |

MATERIAL: Steel

ORD USED WITH: 57-mm antiaircraft artillery projectiles

COMMENTS: Instantaneous. Uses a pyrotechnic self-destruct.

## FORMER SOVIET UNION MG-57

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 81.00 mm | | 1.57 in |
| | 3.19 in | | |
| Exposed | 43.00 mm | OVERALL WT: | 335.66 g |
| | 1.69 in | | 11.84 oz |

MATERIAL: Steel

ORD USED WITH: 57-mm antiaircraft artillery projectiles

COMMENTS: Instantaneous. Uses a pyrotechnic self-destruct.

**MGZ-57** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm<br>2.52 in |
| Overall: | 195.00 mm<br>7.68 in | | |
| Exposed | 141.00 mm<br>5.55 in | OVERALL WT: | 746.00 g<br>26.31 oz |

MATERIAL: Aluminum

ORD USED WITH: Rocket

COMMENTS: Superquick, short-delay, and long-delay settings.

## FORMER SOVIET UNION MRV-U

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 39.00 mm |
| Overall: | 68.00 mm | | 1.54 in |
| | 2.68 in | | |
| Exposed | 36.00 mm | OVERALL WT: | 299.38 g |
| | 1.42 in | | 10.56 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous.

**M-5 M** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 66.00 mm<br>2.60 in | | |
| Exposed | 35.00 mm<br>1.38 in | OVERALL WT: | 299.38 g<br>10.56 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is the sanitized version of the M-5. Instantaneous.

## FORMER SOVIET UNION M-5

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 41.00 mm |
| Overall: | 66.00 mm | | 1.61 in |
| | 2.60 in | | |
| Exposed | 36.00 mm | OVERALL WT: | 299.38 g |
| | 1.42 in | | 10.56 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous.

**M-5** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 39.00 mm<br>1.54 in |
| Overall: | 83.00 mm<br>3.27 in | | |
| Exposed | 52.00 mm<br>2.05 in | OVERALL WT: | 127.01 g<br>4.48 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous.

**FORMER SOVIET UNION** **M-6**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 117.00 mm<br>4.61 in | | |
| Exposed | 71.00 mm<br>2.80 in | OVERALL WT: | 535.25 g<br>18.88 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is identical to the Former Soviet V-22 fuze. Superquick or delay settings.

**M-12** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 100.00 mm | | 1.57 in |
| | 3.94 in | | |
| Exposed | 54.00 mm | OVERALL WT: | 450.00 g |
| | 2.13 in | | 15.87 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Instantaneous, delay, or non-delay settings by the combined use or omission of the selector switch and nose cap.

## FORMER SOVIET UNION RGM

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 100.00 mm | | 1.57 in |
| | 3.94 in | | |
| Exposed | 54.00 mm | OVERALL WT: | 454.00 g |
| | 2.13 in | | 16.01 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is made in two externally different models. Instantaneous, delay, or non-delay settings by the combined use or omission of the selector switch and nose cap.

**RGM-2** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 100.00 mm | | 1.57 in |
| | 3.94 in | | |
| Exposed | 54.00 mm | OVERALL WT: | 425.00 g |
| | 2.13 in | | 14.99 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Instantaneous, delay, or non-delay settings by the combined use or omission of the selector switch and nose cap.

**FORMER SOVIET UNION** **RGM-2M**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 100.00 mm<br>3.94 in | | |
| Exposed | 54.00 mm<br>2.13 in | OVERALL WT: | 454.00 g<br>16.01 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: The fuze is externally the same as the Former Soviet V-429. Instantaneous, delay, or non-delay settings by the combined use or omission of the selector switch and nose cap.

**RGM-6** **FORMER SOVIET UNION**

## PDSD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 30.00 mm |
| Overall: | 51.00 mm | | 1.18 in |
| | 2.00 in | | |
| Exposed | 27.00 mm | OVERALL WT: | 48.16 g |
| | 1.06 in | | 1.70 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: 30-mm VOG-17M projectiles

COMMENTS: Graze sensitive.

## FORMER SOVIET UNION VMG-M

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 157.00 mm | | 1.57 in |
| | 6.18 in | | |
| Exposed | 84.00 mm | OVERALL WT: | 260.00 g |
| | 3.31 in | | 9.17 oz |

MATERIAL: Aluminum and bakelite

ORD USED WITH: 57-mm aircraft rocket

COMMENTS: Instantaneous.

**V-5M1** **FORMER SOVIET UNION**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 116.00 mm | | 1.57 in |
| | 4.57 in | | |
| Exposed | 71.00 mm | OVERALL WT: | 525.00 g |
| | 2.80 in | | 18.52 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: Identical to the Former Soviet M-12 fuze. Superquick or delay settings.

## FORMER SOVIET UNION V-22

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 111.00 mm | | 1.57 in |
| | 4.37 in | | |
| Exposed | 66.00 mm | OVERALL WT: | 618.00 g |
| | 2.60 in | | 21.80 oz |

MATERIAL: Steel

ORD USED WITH: Rocket

COMMENTS: Instantaneous, long-delay, or short-delay settings.

## V-25 FORMER SOVIET UNION

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 104.00 mm<br>4.09 in | | |
| Exposed | 58.00 mm<br>2.28 in | OVERALL WT: | 439.99 g<br>15.52 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: When used in a fin-stabilized projectile the fuze is called a V-429E. Instantaneous or delay settings.

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 44.50 mm<br>1.75 in |
| Overall: | 102.30 mm<br>4.03 in | | |
| Exposed | 79.70 mm<br>3.14 in | OVERALL WT: | 280.00 g<br>9.88 oz |

MATERIAL: Unknown

ORD USED WITH: Rockets

COMMENTS: Graze sensitive.

**B 70** **SPAIN**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.50 mm<br>2.46 in |
| Overall: | 152.13 mm<br>5.99 in | | |
| Exposed | 96.00 mm<br>3.78 in | OVERALL WT: | 565.00 g<br>19.93 oz |

MATERIAL: Unknown

ORD USED WITH: Rockets

COMMENTS: Impact function available.

## SPAIN BC 140 D

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 50.00 mm |
| Overall: | 92.00 mm | | 1.97 in |
| | 3.62 in | | |
| Exposed | 65.00 mm | OVERALL WT: | 211.00 g |
| | 2.56 in | | 7.44 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous or delay setting.

**MODEL D** **SPAIN**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 32.00 mm<br>1.26 in |
| Overall: | 116.00 mm<br>4.57 in | | |
| Exposed | 45.00 mm<br>1.77 in | OVERALL WT: | 201.00 g<br>7.09 oz |

MATERIAL: Brass and lead

ORD USED WITH: Mortar projectiles

COMMENTS: None.

**SPAIN** **ECIA-55**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 32.00 mm<br>1.26 in |
| Overall: | 87.00 mm<br>3.43 in | | |
| Exposed | 44.00 mm<br>1.73 in | OVERALL WT: | 186.50 g<br>6.58 oz |

MATERIAL: Brass and lead

ORD USED WITH: Mortar projectiles

COMMENTS: None.

**EE-W300** **SPAIN**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 32.00 mm<br>1.26 in |
| Overall: | 116.00 mm<br>4.57 in | | |
| Exposed | 45.00 mm<br>1.77 in | OVERALL WT: | 193.00 g<br>6.81 oz |

MATERIAL: Brass and steel

ORD USED WITH: Mortar projectiles

COMMENTS: None.

**SPAIN** **EE-53-W-310**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 63.00 mm<br>2.48 in |
| Overall: | 152.00 mm<br>5.98 in | | |
| Exposed | 114.00 mm<br>4.49 in | OVERALL WT: | 1211.90 g<br>42.75 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is used with Former Soviet style projectiles. Superquick or delay settings.

**PDB 101** **SPAIN**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 151.00 mm | | 2.52 in |
| | 5.94 in | | |
| Exposed | 118.00 mm | OVERALL WT: | 779.00 g |
| | 4.65 in | | 27.48 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is used in Former Soviet style projectiles. Superquick or delay settings.

## SPAIN PDB 102

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 48.5 mm |
| Overall: | 134.40 mm | | 1.91 in |
| | 5.29 in | | |
| Exposed | 95.00 mm | OVERALL WT: | 350.00 g |
| | 3.74 in | | 12.34 oz |

MATERIAL: Unknown

ORD USED WITH: Rockets

COMMENTS: Impact function available.

**PDB 122** **SPAIN**

## PDSQ

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm |
| Overall: | 95.00 mm | | 1.93 in |
| | 3.74 in | | |
| Exposed | 66.50 mm | OVERALL WT: | 220.00 g |
| | 2.61 in | | 7.76 oz |

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Visual armed/safe indicator.

## SPAIN PDB 332

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 95.00 mm<br>3.74 in | | |
| Exposed | 66.50 mm<br>2.62 in | OVERALL WT: | 235.00 g<br>8.29 oz |

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay settings.

**PDB 333** **SPAIN**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 79.00 mm<br>3.11 in | | |
| Exposed | 50.00 mm<br>1.97 in | OVERALL WT: | 210.00 g<br>7.41 oz |

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Several modifications exist.

## SWITZERLAND K 85

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 45.00 mm |
| Overall: | 70.00 mm | | 1.77 in |
| | 2.76 in | | |
| Exposed | 33.00 mm | OVERALL WT: | 438.00 g |
| | 1.30 in | | 15.45 oz |

MATERIAL: Brass

ORD USED WITH: Reconnaissance vehicle gun projectile

COMMENTS: None.

**L17A3** **UNITED KINGDOM**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 45.00 mm |
| Overall: | 70.00 mm | | 1.77 in |
| | 2.76 in | | |
| Exposed | 33.00 mm | OVERALL WT: | 439.00 g |
| | 1.30 in | | 15.49 oz |

MATERIAL: Brass

ORD USED WITH: Reconnaissance vehicle gun projectile

COMMENTS: None.

## UNITED KINGDOM L17A6

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 151.00 mm | | 2.40 in |
| | 5.94 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 985.00 g |
| | 3.78 in | | 34.74 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Instantaneous and delay settings.

## L32A2 UNITED KINGDOM

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 66.00 mm |
| Overall: | 160.00 mm | | 2.60 in |
| | 6.30 in | | |
| Exposed | 99.00 mm | OVERALL WT: | 571.00 g |
| | 3.90 in | | 20.14 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick and delay settings. The fuze uses a cocked striker for delay firing.

## UNITED KINGDOM L35A1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 151.00 mm | | 2.40 in |
| | 5.94 in | | |
| Exposed | 100.00 mm | OVERALL WT: | 1000.40 g |
| | 3.94 in | | 35.29 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Superquick or delay settings.

## L106A2 UNITED KINGDOM

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 35.00 mm<br>1.38 in |
| Overall: | 86.00 mm<br>3.38 in | | |
| Exposed | 34.00 mm<br>1.34 in | OVERALL WT: | 349.00 g<br>12.31 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: None.

## UNITED KINGDOM 162 MK10

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.00 mm |
| Overall: | 126.00 mm | | 2.36 in |
| | 4.96 in | | |
| Exposed | 87.00 mm | OVERALL WT: | 1171.00 g |
| | 3.43 in | | 41.31 oz |

MATERIAL: Brass

ORD USED WITH: Artillery projectiles

COMMENTS: None.

## 117 MK 17/7 UNITED KINGDOM

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.00 mm<br>2.36 in |
| Overall: | 121.00 mm<br>4.76 in | | |
| Exposed | 84.00 mm<br>3.31 in | OVERALL WT: | 1182.00 g<br>41.69 oz |

MATERIAL: Brass

ORD USED WITH: Artillery projectiles

COMMENTS: None.

## UNITED KINGDOM 117 MK 20

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 106.00 mm<br>4.17 in | | |
| Exposed | 61.00 mm<br>2.40 in | OVERALL WT: | 464.30 g<br>16.38 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is also called the UTIU-M71. Superquick or delay settings.

**AU-18** **FORMER YUGOSLAVIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 106.00 mm | | 1.57 in |
| | 4.17 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 417.30 g |
| | 2.40 in | | 14.72 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is also called the UTIU-M72. Superquick or delay settings.

## FORMER YUGOSLAVIA AU-18P1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 102.00 mm | | 1.57 in |
| | 4.02 in | | |
| Exposed | 57.00 mm | OVERALL WT: | 433.00 g |
| | 2.24 in | | 15.27 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is also called the UTIU-M78. Superquick or delay settings.

**AU-29** **FORMER YUGOSLAVIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 150.00 mm | | 2.40 in |
| | 5.91 in | | |
| Exposed | 95.00 mm | OVERALL WT: | 946.00 g |
| | 3.74 in | | 33.37 oz |

MATERIAL: Steel and brass

ORD USED WITH: Artillery projectiles

COMMENTS: The fuze is a copy of the U.S. M51A5. Superquick or delay settings.

## FORMER YUGOSLAVIA M51A5

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 38.00 mm<br>1.50 in |
| Overall: | 67.00 mm<br>2.64 in | | |
| Exposed | 32.00 mm<br>1.26 in | OVERALL WT: | 226.00 g<br>7.97 oz |

MATERIAL: Steel

ORD USED WITH: Rocket

COMMENTS: This fuze is a copy of the Former Czechoslovak nz60v fuze.

**M63** **FORMER YUGOSLAVIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 150.00 mm | | 2.40 in |
| | 5.91 in | | |
| Exposed | 94.00 mm | OVERALL WT: | 876.00 g |
| | 3.70 in | | 30.90 oz |

MATERIAL: Steel and brass

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is also called the AU-10 and is a copy of the U.S. M557. Superquick and delay settings.

## FORMER YUGOSLAVIA M557

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 31.00 mm |
| Overall: | 78.00 mm | | 1.22 in |
| | 3.07 in | | |
| Exposed | 60.00 mm | OVERALL WT: | 187.00 g |
| | 2.36 in | | 6.60 oz |

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: Although encountered on a Former Yugoslav round, this fuze actually carries Indonesian manufacturer's markings.

**PSM No. 4 MK1** **FORMER YUGOSLAVIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 90.00 mm<br>3.54 in | | |
| Exposed | 62.00 mm<br>2.44 in | OVERALL WT: | 163.20 g<br>5.76 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: None.

## FORMER YUGOSLAVIA M68

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 46.00 mm |
| Overall: | 87.00 mm | | 1.81 in |
| | 3.43 in | | |
| Exposed | 61.00 mm | OVERALL WT: | 173.00 g |
| | 2.40 in | | 6.10 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: None.

## M68 P1 FORMER YUGOSLAVIA

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 46.00 mm |
| Overall: | 80.00 mm | | 1.18 in |
| | 3.15 in | | |
| Exposed | 63.00 mm | OVERALL WT: | 158.70 g |
| | 2.48 in | | 5.60 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is used with white phosphorous projectiles.

## FORMER YUGOSLAVIA M70 P1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 105.00 mm<br>4.13 in | | |
| Exposed | 60.00 mm<br>2.36 in | OVERALL WT: | 460.10 g<br>16.23 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is also called the AU-18P1. Superquick or delay settings.

**M72** **FORMER YUGOSLAVIA**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 102.00 mm | | 1.57 in |
| | 4.02 in | | |
| Exposed | 57.00 mm | OVERALL WT: | 430.90 g |
| | 2.24 in | | 15.20 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is used with rocket-assisted projectiles and is also called the AU-29. Impact, superquick, or delay settings.

## FORMER YUGOSLAVIA M78

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 86.00 mm | | 2.40 in |
| | 3.39 in | | |
| Exposed | 73.00 mm | OVERALL WT: | 293.00 g |
| | 2.87 in | | 10.33 oz |

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze is similar to the German DM-111 series fuze.

**M-111B1** **COUNTRY UNKNOWN**

## PD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 77.00 mm | | 1.57 in |
| | 3.03 in | | |
| Exposed | 60.00 mm | OVERALL WT: | 218.00 g |
| | 2.36 in | | 7.69 oz |

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: When used with the adapter (right photo), the fuze can be used with Former Eastern-Bloc mortar projectiles.

**COUNTRY UNKNOWN** **UB-M**

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(Reverse Blank)

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 97.00 mm | | 1.57 in |
| | 3.82 in | | |
| Exposed | 76.00 mm | OVERALL WT: | 219.00 g |
| | 2.99 in | | 7.72 oz |

MATERIAL: Aluminum

ORD USED WITH: Recoilless rifle projectiles

COMMENTS: This fuze is a copy of the Former Soviet GK-2.

**TS-2** **CHINA**

## PIBD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 41.00 mm |
| Overall: | 97.00 mm | | 1.61 in |
| | 3.82 in | | |
| Exposed | 74.00 mm | OVERALL WT: | 219.00 g |
| | 2.91 in | | 7.72 oz |

MATERIAL: Aluminum

ORD USED WITH: Recoilless rifle projectiles

COMMENTS: This fuze is a copy of the Former Soviet GK-1.

## CHINA TYPE 1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 96.60 mm | | 1.57 in |
| | 3.80 in | | |
| Exposed | 42.80 mm | OVERALL WT: | 404.00 mm |
| | 1.69 in | | 14.25 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Recoilless rifle projectiles

COMMENTS: None.

**TYPE 3** **CHINA**

## PIBD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 30.00 mm |
| Overall: | 97.00 mm | | 1.18 in |
| | 3.82 in | | |
| Exposed | 67.00 mm | OVERALL WT: | 101.00 g |
| | 2.64 in | | 3.56 oz |

MATERIAL: Steel

ORD USED WITH: Artillery projectile

COMMENTS: This is a PIBD fuze that uses an impact sensitive explosive for initiation.

## FORMER CZECHOSLOVAKIA nz-42

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 30.00 mm |
| Overall: | 55.00 mm | | 1.18 in |
| | 2.17 in | | |
| Exposed | 40.00 mm | OVERALL WT: | 130.00 g |
| | 1.57 in | | 4.59 oz |

MATERIAL: Steel and bakelite

ORD USED WITH: Model T-21, 82-mm recoilless gun, HEAT projectile.

COMMENTS: None.

## PIBD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 37.00 mm |
| Overall: | 74.00 mm | | 1.46 in |
| | 2.91 in | | |
| Exposed | 0.00 mm | OVERALL WT: | 96.00 g |
| | 0.00 in | | 3.39 oz |

MATERIAL: Aluminum and bakelite

ORD USED WITH: Rocket

COMMENTS: This fuze uses a piezoelectric nose element. Pyrotechnic self-destruct.

## GERMANY VP-7M

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 99.00 mm | | 1.57 in |
| | 3.90 in | | |
| Exposed | 73.00 mm | OVERALL WT: | 220.00 g |
| | 2.87 in | | 7.76 oz |

MATERIAL: Aluminum

ORD USED WITH: Recoilless gun projectiles

COMMENTS: This fuze is a copy of the Former Soviet GK-2. Instantaneous.

**TYPE 2** **NORTH KOREA**

## PIBD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 97.00 mm | | 1.57 in |
| | 3.82 in | | |
| Exposed | 74.00 mm | OVERALL WT: | 135.00 g |
| | 2.91 in | | 4.76 oz |

MATERIAL: Aluminum

ORD USED WITH: Recoilless gun projectiles

COMMENTS: Instantaneous. Graze sensitive.

## FORMER SOVIET UNION GK-1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 97.00 mm | | 1.57 in |
| | 3.82 in | | |
| Exposed | 76.00 mm | OVERALL WT: | 219.00 g |
| | 2.99 in | | 7.72 oz |

MATERIAL: Aluminum

ORD USED WITH: Recoilless gun projectiles

COMMENTS: Instantaneous. Graze sensitive.

**GK-2** **FORMER SOVIET UNION**

## PIBD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 41.00 mm |
| Overall: | 122.00 mm | | 1.61 in |
| | 4.80 in | | |
| Exposed | 97.00 mm | OVERALL WT: | 205.00 g |
| | 3.82 in | | 7.23 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Recoilless gun projectiles

COMMENTS: Instantaneous. Improved graze sensitivity over the GK-2.

## FORMER SOVIET UNION GK-2M

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 77.00 mm | | 1.57 in |
| | 3.03 in | | |
| Exposed | 57.00 mm | OVERALL WT: | 161.00 g |
| | 2.24 in | | 5.68 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Graze sensitive. Instantaneous.

**GKV** **FORMER SOVIET UNION**

## PIBD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 98.00 mm<br>3.86 in | | |
| Exposed | 56.00 mm<br>2.20 in | OVERALL WT: | 190.00 g<br>670 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is found with and without wrench flats. Instantaneous. Uses a piezoelectric crystal.

## FORMER SOVIET UNION GPV-2

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 125.00 mm | | 1.57 in |
| | 4.92 in | | |
| Exposed | 110.00 mm | OVERALL WT: | 163.00 g |
| | 4.33 in | | 5.75 oz |

MATERIAL: Aluminum and bakelite

ORD USED WITH: 57-mm aircraft rockets

COMMENTS: Instantaneous.

**V-5K** **FORMER SOVIET UNION**

## PIBD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 37.00 mm |
| Overall: | 74.00 mm | | 1.46 in |
| | 2.91 in | | |
| Exposed | 0.00 mm | OVERALL WT: | 96.00 g |
| | 0.00 in | | 3.39 oz |

MATERIAL: Aluminum and bakelite

ORD USED WITH: Rocket

COMMENTS: This fuze uses a piezoelectric element. Pyrotechnic self-destruct.

## FORMER SOVIET UNION VP-18

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 42.50 mm |
| Overall: | 75.00 mm | | 1.67 in |
| | 2.95 in | | |
| Exposed | 0.00 mm | OVERALL WT: | 120.00 g |
| | 0.00 in | | 4.23 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Aircraft rockets

COMMENTS: This fuze uses a piezoelectric nose element.

**9-K1-608** **FORMER SOVIET UNION**

## PIBD

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 98.00 mm | | 1.57 in |
| | 3.86 in | | |
| Exposed | 56.00 mm | OVERALL WT: | 154.00 g |
| | 2.20 in | | 5.43 oz |

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is a copy of the Former Soviet GPV-2 and is also called the AU-16.

## FORMER YUGOSLAVIA M69

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| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | Unknown | | 2.52 in |
| | Unknown | | |
| Exposed | Unknown | OVERALL WT: | Unknown |
| | Unknown | | Unknown |

MATERIAL: Plastic and aluminum

ORD USED WITH: 122-mm rockets

COMMENTS: Believed to have an impact back-up.

**AR-201R** **BULGARIA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 135.00 mm | | 1.57 in |
| | 5.31 in | | |
| Exposed | 94.00 mm | OVERALL WT: | Unknown |
| | 3.70 in | | Unknown |

MATERIAL: Plastic and aluminum

ORD USED WITH: Artillery and mortar projectiles

COMMENTS: Believed to have an impact back-up.

## BULGARIA AR 205 ES

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 157.00 mm | | 1.57 in |
| | 6.18 in | | |
| Exposed | 111.00 mm | OVERALL WT: | 572.00 g |
| | 4.37 in | | 20.18 oz |

MATERIAL: Aluminum, steel, and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: The fuze has a mechanical impact feature. Plastic nose element can be found in different colors.

**RV-1** **BULGARIA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40 mm<br>1.57 in |
| Overall: | 128.2 mm<br>5.05 in | | |
| Exposed | 81.4 mm<br>3.20 in | OVERALL WT: | 320.00 g<br>11.29 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery and mortar projectiles

COMMENTS: Impact backup.

## BULGARIA RV-2

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm<br>2.52 in |
| Overall: | 195.00 mm<br>7.68 in | | |
| Exposed | 100.00 mm<br>3.94 in | OVERALL WT: | 1345.60 g<br>47.46 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: The fuze is reported to have an impact back-up. Burst height of 6 meters.

**MD-11** **CHINA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm<br>2.52 in |
| Overall: | 193.50 mm<br>7.62 in | | |
| Exposed | 89.50 mm<br>3.52 in | OVERALL WT: | 1346.00 g<br>47.48 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is reported to have an impact back-up.

## CHINA MD-11A

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.00 mm |
| Overall: | 204.40 mm | | 2.52 in |
| | 8.05 in | | |
| Exposed | 91.00 mm | OVERALL WT: | 1216.00 g |
| | 3.58 in | | 42.89 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze has a mechanical impact back-up. Average burst height of 3 to 16 meters.

**MD-12A** **CHINA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 174.00 mm | | 1.57 in |
| | 6.85 in | | |
| Exposed | 127.00 mm | OVERALL WT: | 590.00 g |
| | 5.00 in | | 20.81 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Rockets

COMMENTS: This fuze is reported to have an impact back-up.

## CHINA MD-21

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 70.00 mm |
| Overall: | 222.90 mm | | 2.76 in |
| | 8.76 in | | |
| Exposed | 124.70 mm | OVERALL WT: | 1600.00 g |
| | 4.91 in | | 56.44 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Naval artillery projectiles

COMMENTS: Impact back-up and self-destruct feature.

**CA 100 F3** **FRANCE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 70.00 mm |
| Overall: | 222.90 mm | | 2.76 in |
| | 8.76 in | | |
| Exposed | 124.70 m | OVERALL WT: | 1600.00 g |
| | 4.91 in | | 56.44 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Naval artillery projectiles

COMMENTS: Impact back-up. Antiaircraft or surface use.

## FRANCE CA 100 F4

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 218.44 mm | | 2.40 in |
| | 8.60 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 588.60 g |
| | 3.78 in | | 20.76 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze has an impact back-up.

**CAL 120 PR 14** **FRANCE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 70.00 mm |
| Overall: | 223.20 mm | | 2.76 in |
| | 8.79 in | | |
| Exposed | 124.7 mm | OVERALL WT: | 1600.00 g |
| | 4.91 in | | 56.44 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: 100-mm naval artillery projectiles

COMMENTS: Impact back-up.

## FRANCE FU-ALTM-100 F84

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 151.00 mm | | 2.40 in |
| | 5.93 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 640.00 g |
| | 3.77 in | | 22.57 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Impact superquick option.

**FU-RA-DE-F5** **FRANCE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 221.80 mm | | 2.40 in |
| | 8.73 in | | |
| Exposed | 98.35 mm | OVERALL WT: | 1105.00 g |
| | 3.87 in | | 38.98 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: None.

## FRANCE FU RALEC F2

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 151.00 mm | | 2.40 in |
| | 5.94 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 626.00 g |
| | 3.78 in | | 22.08 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Selector switch shows two positions, ground burst (PD) and airburst.

**FU RALEC DE F3** **FRANCE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 210.00 mm | | 2.40 in |
| | 8.27 in | | |
| Exposed | 99.00 mm | OVERALL WT: | 737.10 g |
| | 3.90 in | | 26.00 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: None.

## FRANCE FU RC 58/62

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 118.50 mm | | 1.57 in |
| | 4.66 in | | |
| Exposed | 72.00 mm | OVERALL WT: | 300.00 g |
| | 2.83 in | | 10.58 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up.

## MINNIE

## FRANCE

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm<br>2.40 in |
| Overall: | 150.88 mm<br>5.94 in | | |
| Exposed | 99.20 mm<br>3.91 in | OVERALL WT: | 755.30 g<br>26.64 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: Selector switch shows two positions; ground burst (PD) and airburst.

## FRANCE PF120-PR14

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 118.00 mm<br>4.65 in | | |
| Exposed | 72.00 mm<br>2.83 in | OVERALL WT: | 291.80 g<br>10.29 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze has an impact back-up and is designed for projectiles having a small diameter, Former Soviet size fuze well.

**PF 122** **FRANCE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 118.00 mm | | 1.57 in |
| | 4.65 in | | |
| Exposed | 72.00 mm | OVERALL WT: | 290.20 g |
| | 2.83 in | | 10.24 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze has an impact back-up and is designed for projectiles having a small diameter, Former Soviet size fuze well.

## FRANCE PF 130

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 25.70 mm<br>1.01 in |
| Overall: | 70.20 mm<br>2.76 in | | |
| Exposed | 42.00 mm<br>1.65 in | OVERALL WT: | 540.00 g<br>19.05 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: 40-mm L/70 projectiles

COMMENTS: Antihelicopter fuze. Impact backup and self-destruct feature.

**T40 ER AH** **FRANCE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 25.70 mm<br>1.01 in |
| Overall: | 70.28 mm<br>2.77 in | | |
| Exposed | 42.08 mm<br>1.66 in | OVERALL WT: | 540.00 g<br>19.05 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: 40-mm L/70 naval projectiles

COMMENTS: Impact back-up and self destruct feature.

## FRANCE T40 ER M

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.00 mm<br>2.44 in |
| Overall: | 202.50 mm<br>7.97 in | | |
| Exposed | 95.00 mm<br>3.74 in | OVERALL WT: | 900.00 g<br>31.75 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: 76-mm projectiles

COMMENTS: Antihelicopter projectiles. Impact back-up and self-destruct feature.

**T76 AH** **FRANCE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.00 mm |
| Overall: | 202.50 mm | | 2.44 in |
| | 7.97 in | | |
| Exposed | 95.00 mm | OVERALL WT: | 900.00 g |
| | 3.74 in | | 31.75 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: 76-mm naval artillery projectiles

COMMENTS: Impact back-up and self-destruct feature. Switching ring on fuze to allow automatic setting in the breech prior to firing.

## FRANCE T76 M53 M

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.00 mm<br>2.44 in |
| Overall: | 228.00 mm<br>8.98 in | | |
| Exposed | 147.00 mm<br>5.79 in | OVERALL WT: | 656.00 g<br>23.14 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: None.

**M1P** **ISRAEL**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 91.00 mm<br>3.58 in | | |
| Exposed | 63.80 mm<br>2.51 in | OVERALL WT: | Unknown |

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: Impact option. AJV 169 A1 used in 81-mm projectiles. AJV 169 A2 used in 120-mm projectiles.

## ITALY AJV 169

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | Unknown |
| Overall: | 91.00 mm<br>3.58 in | | Unknown |
| Exposed | 63.70 mm<br>2.51 in | OVERALL WT: | 210.00 g<br>7.4 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: Selectable impact function.

**PPD 323** **NORWAY**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | Unknown |
| Overall: | 91.00 mm<br>3.58 in | | Unknown |
| Exposed | 67.50 mm<br>2.66 in | OVERALL WT: | 210.00 g<br>7.41 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: Selectable impact function.

**NORWAY** **PPD 324**

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | Unknown |
| Overall: | 151.60 mm<br>5.97 in | | Unknown |
| Exposed | 95.50 mm<br>3.76 in | OVERALL WT: | 485.00 g<br>17.11 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Selectable impact function.

**PPD 440** **NORWAY**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 46.50 mm<br>1.83 in |
| Overall: | 101.30 mm<br>3.99 in | | |
| Exposed | 73.20 mm<br>2.88 in | OVERALL WT: | 240 g<br>8.5 oz |

MATERIAL: Aluminum

ORD USED WITH: 60- and 81-mm mortar projectiles

COMMENTS: Another NVT-2 variation exists (next page) for larger caliber mortar projectiles.

## NORWAY NVT-2

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 59.60 mm<br>2.34 in |
| Overall: | 125.40 mm<br>4.94 in | | |
| Exposed | 70.00 mm<br>2.76 in | OVERALL WT: | 345 g<br>12.17 oz |

MATERIAL: Aluminum

ORD USED WITH: 120-mm and 4.2 in mortar projectiles

COMMENTS: Another version of the NVT-2 exists (previous page) for smaller caliber mortar projectiles.

**NVT-2** **NORWAY**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 152.00 mm | | 2.40 in |
| | 5.98 in | | |
| Exposed | 96.00 mm | OVERALL WT: | 378.00 g |
| | 3.78 in | | 13.33 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze has an impact feature.

## SINGAPORE EF722

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 51.20 mm<br>2.02 in |
| Overall: | 151.60 mm<br>5.97 in | | |
| Exposed | 95.50 mm<br>3.76 in | OVERALL WT: | 500 g<br>17.64 oz |

MATERIAL: Aluminum and steel

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up.

**MIRA EF-723** **SINGAPORE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 49.00 mm<br>1.93 in |
| Overall: | 107.00 mm<br>4.21 in | | |
| Exposed | 79.00 mm<br>3.11 in | OVERALL WT: | 265.00 g<br>9.35 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: PD setting option also functions as an impact back-up when set on the proximity mode.

## SINGAPORE EF-792

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 43.00 mm |
| Overall: | 128.20 mm | | 1.69 in |
| | 5.05 in | | |
| Exposed | 81.70 mm | OVERALL WT: | 510.00 g |
| | 3.22 in | | 17.99 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Point detonating settable feature also acts as a back-up during the proximity mode.

**EF-796** **SINGAPORE**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 151.60 mm | | 2.40 in |
| | 5.97 in | | |
| Exposed | 95.50 mm | OVERALL WT: | 520.00 g |
| | 3.76 in | | 18.34 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Point detonating settable function also acts as a back-up when in the proximity mode.

## SINGAPORE EF-7233

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 63.50 mm<br>2.50 mm |
| Overall: | 159.00 mm<br>6.26 in | | |
| Exposed | 107.00 mm<br>4.21 in | OVERALL WT: | 750 g<br>26.46 oz |

MATERIAL: Plastic and aluminum

ORD USED WITH: Rockets

COMMENTS: For standard range/velocity 122-mm rockets.

**BM21** **SOUTH AFRICA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 63.50 mm |
| Overall: | 150.00 mm | | 2.50 in |
| | 5.90 in | | |
| Exposed | 107.00 mm | OVERALL WT: | Unknown |
| | 4.21 in | | Unknown |

MATERIAL: Plastic and aluminum

ORD USED WITH: Rockets

COMMENTS: For extended range/velocity 122-mm rockets.

## SOUTH AFRICA BM36

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.25 mm<br>2.41 in |
| Overall: | 149.10 mm<br>5.87 in | | |
| Exposed | 94.45 mm<br>3.72 in | OVERALL WT: | 1110 g<br>39.15 oz |

MATERIAL: Plastic and aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up.

**M85C13** **SOUTH AFRICA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 64.10 mm Entry |
| Overall: | 149.10 mm Entry | | |
| Exposed | 105.30 mm Entry | OVERALL WT: | 1110 g Entry |

MATERIAL: Plastic and aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up.

## SOUTH AFRICA M85R13

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm |
| Overall: | 123.00 mm | | 1.57 in |
| | 4.84 in | | |
| Exposed | 76.00 mm | OVERALL WT: | 275.00 g |
| | 2.99 in | | 9.70 oz |

MATERIAL: Aluminum, steel, and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze has an impact feature.

**MO120** **SOUTH AFRICA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.00 mm |
| Overall: | 154.00 mm | | 2.40 in |
| | 6.06 in | | |
| Exposed | 101.00 mm | OVERALL WT: | 804.80 g |
| | 2.40 in | | 28.39 oz |

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze has an impact feature.

## SOUTH AFRICA M8513A1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.00 mm<br>1.57 in |
| Overall: | 101.50 mm<br>4.00 in | | |
| Exposed | 75.20 mm<br>2.96 in | OVERALL WT: | 275.00 g<br>9.7 oz |

MATERIAL: Plastic and aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Similar to the M8517.

**M8516** **SOUTH AFRICA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 45.00 mm<br>1.77 in |
| Overall: | 101.5 mm<br>4.00 in | | |
| Exposed | 75.20 mm<br>2.96 in | OVERALL WT: | 280 g<br>9.88 oz |

MATERIAL: Plastic and aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Similar to the M8516.

## SOUTH AFRICA M8517

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.00 mm |
| Overall: | 204.57 mm | | 2.44 in |
| | 8.05 in | | |
| Exposed | 95.40 mm | OVERALL WT: | 930 g |
| | 3.76 in | | 32.8 oz |

MATERIAL: Plastic and aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: For naval use. Back-up impact function.

**M8953** **SOUTH AFRICA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 48.10 mm<br>1.89 in |
| Overall: | 103.46 mm<br>4.07 in | | |
| Exposed | 76.96 mm<br>3.03 in | OVERALL WT: | 360.00 g<br>12.70 oz |

MATERIAL: Plastic and aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Replaces the M8516 and M8517 fuzes.

## SOUTH AFRICA M9327A1

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 40.20 mm<br>1.58 in |
| Overall: | 123.45 mm<br>4.86 in | | |
| Exposed | 77.11 mm<br>3.03 in | OVERALL WT: | 275 g<br>9.7 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Rockets

COMMENTS: Impact selection available.

**RO 107** **SOUTH AFRICA**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 62.00 mm<br>2.44 in |
| Overall: | 151.55 mm<br>5.97 in | | |
| Exposed | 95.50 mm<br>3.76 in | OVERALL WT: | 789 g<br>27.83 oz |

MATERIAL: Plastic and unknown metal

ORD USED WITH: Artillery projectiles

COMMENTS: Impact selectable option.

## SOUTH KOREA K700

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 61.20 mm<br>2.41 in |
| Overall: | 152.13 mm<br>5.99 in | | |
| Exposed | 96.00 mm<br>3.80 in | OVERALL WT: | Unknown<br>Unknown |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up feature.

**EP 101 A** **SPAIN**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.70 mm<br>2.39 in |
| Overall: | 146.86 mm<br>5.78 in | | |
| Exposed | 96.52 mm<br>3.80 in | OVERALL WT: | Unknown<br>Unknown |

MATERIAL: Aluminum and plastic

ORD USED WITH: Rockets

COMMENTS: Impact back-up feature.

## SPAIN VTB 140 T

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 35.70 mm<br>1.41 in |
| Overall: | 94.45 mm<br>3.72 in | | |
| Exposed | 83.50 mm<br>3.29 in | OVERALL WT: | 116.00 g<br>4.09 oz |

MATERIAL: Plastic and aluminum

ORD USED WITH: 40-mm Bofors L70 artillery projectile

COMMENTS: None.

**P-F 40-2** **SWEDEN**

## PROX

| | | | |
|---|---|---|---|
| LENGTH: | | MAX DIA: | 60.00 mm |
| Overall: | 133.00 mm | | 2.36 in |
| | 2.99 in | | |
| Exposed | 76.00 mm | OVERALL WT: | 426.60 g |
| | 2.99 in | | 15.04 oz |

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze has an impact back-up.

## FORMER YUGOSLAVIA M79

# Appendix
# Glossary of Terms

BD . . . . . base detonating
BDSD . . . . . base detonating, self-destruct
HEAT . . . . . high-explosive antitank
MT . . . . . mechanical time
MTSQ . . . . . mechanical time and superquick
PD . . . . . point detonating
PDSD . . . . . point detonating, self-destruct
PIBD . . . . . point initiating, base detonating
PROX . . . . . proximity
PTTF . . . . . powder train time fuze
RAP . . . . . rocket-assisted projectile
TSQ . . . . . time and superquick
WP . . . . . white phosphorous

(Reverse Blank)

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