Worldwide Fuze Identification Guide
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Systems Directorate
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U.S. Army Intelligence and Security Command


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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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 on 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>
<thead>
<tr>
<th>Designator</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD</td>
<td>Proximity and piezoelectric fuzes for artillery projectiles, rockets, and missiles.</td>
</tr>
<tr>
<td>MJ</td>
<td>Point-detonating fuzes for rockets.</td>
</tr>
<tr>
<td>ML</td>
<td>Point-detonating fuzes for artillery projectiles.</td>
</tr>
<tr>
<td>MP</td>
<td>Point-detonating fuzes for mortar projectiles.</td>
</tr>
<tr>
<td>MS</td>
<td>Time and mechanical time fuzes for artillery and mortar projectiles.</td>
</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>RUSSIAN</th>
<th>ROMAN</th>
<th>RUSSIAN</th>
<th>ROMAN</th>
<th>RUSSIAN</th>
<th>ROMAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Аа</td>
<td>a</td>
<td>Кк</td>
<td>k</td>
<td>Хх</td>
<td>kh</td>
</tr>
<tr>
<td>Бб</td>
<td>b</td>
<td>Лп</td>
<td>l</td>
<td>Цц</td>
<td>ts</td>
</tr>
<tr>
<td>Вв</td>
<td>v</td>
<td>Мм</td>
<td>m</td>
<td>Чч</td>
<td>ch</td>
</tr>
<tr>
<td>Гг</td>
<td>g</td>
<td>Нн</td>
<td>n</td>
<td>Шш</td>
<td>sh</td>
</tr>
<tr>
<td>Дд</td>
<td>d</td>
<td>Оо</td>
<td>o</td>
<td>Щщ</td>
<td>shch</td>
</tr>
<tr>
<td>Ее</td>
<td>е, ye</td>
<td>Пп</td>
<td>p</td>
<td>Ьь</td>
<td>&quot;</td>
</tr>
<tr>
<td>Ёё</td>
<td>ё, yё</td>
<td>Рр</td>
<td>r</td>
<td>Ыы</td>
<td>y</td>
</tr>
<tr>
<td>Жж</td>
<td>zh</td>
<td>Сс</td>
<td>s</td>
<td>Ьь</td>
<td>&quot;</td>
</tr>
<tr>
<td>Зз</td>
<td>z</td>
<td>Тт</td>
<td>t</td>
<td>Ээ</td>
<td>e</td>
</tr>
<tr>
<td>Ии</td>
<td>i</td>
<td>Уу</td>
<td>u</td>
<td>Юю</td>
<td>yu</td>
</tr>
<tr>
<td>Йй</td>
<td>y</td>
<td>Фф</td>
<td>f</td>
<td>Яя</td>
<td>ya</td>
</tr>
</tbody>
</table>

1. The Cyrillic letter "е" is transliterated as "ye" initially, after vowels, and after "Ъ" and "Ъ;" elsewhere as "е."

2. The letter "ё" 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 "yё" or "ye" initially, after vowels, and after "Ъ" and "Ъ;" elsewhere as "ё" or "е." The use of the dieresis in the transliterated form was made optional by the BGN and the PCGN in May 1970.

FOREIGN FUZES

(Reverse Blank)
5
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

(Reverse Blank)
BD

LENGTH: MAX DIA: 
Overall: 108.00 mm 40.00 mm
4.25 in 1.57 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.
**BD**

LENGTH: 
Overall: 64.60 mm (2.54 in) 
Exposed: 0.00 mm (0.00 in)

MAX DIA: 29.00 mm (1.14 in)

OVERALL WT: 71.00 g (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
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 66.00 mm</td>
<td>34.00 mm</td>
</tr>
<tr>
<td>Exposed: 29.00 mm</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td></td>
<td>262.00 g</td>
</tr>
<tr>
<td></td>
<td>9.24 oz</td>
</tr>
</tbody>
</table>

MATERIAL: Steel

ORD USED WITH: Armor-piercing high explosive artillery projectile

COMMENTS: Fuze functions after sensing penetration.
**BD**

**LENGTH:**
- Overall: 107.00 mm
  - 4.21 in
- Exposed: 64.00 mm
  - 2.52 in

**MAX DIA:**
- 40.00 mm
  - 1.57 in

**OVERALL WT:**
- 284.00 g
  - 10.02 oz

**MATERIAL:** Steel

**ORD USED WITH:** Armor-piercing artillery projectile

**COMMENTS:** Graze sensitive.

**FORMER SOVIET UNION**

**DBR**

12
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 113.00 mm</td>
<td>65.00 mm</td>
</tr>
<tr>
<td>4.45 in</td>
<td>2.56 in</td>
</tr>
<tr>
<td>Exposed: 15.60 mm</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td>0.61 in</td>
<td>1140.00 g</td>
</tr>
<tr>
<td></td>
<td>40.21 oz</td>
</tr>
</tbody>
</table>

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.
**BDSD**

**LENGTH:**
- Overall: 64.40 mm
- Exposed: 0.00 mm

**MAX DIA:**
- 29.00 mm

**OVERALL WT:**
- 79.00 g

**MAX DIA:**
- 1.14 in

**OVERALL WT:**
- 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:**
- Overall: 109.00 mm (4.29 in)
- Exposed: 11.95 mm (0.47 in)

**MAX DIA:** 66.00 mm (2.60 in)

**OVERALL WT:** 1233.0 g (43.49 oz)

**MATERIAL:** Steel

**ORD USED WITH:** Concrete-piercing artillery projectiles

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

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>Max Dia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>63.00 mm</td>
<td>29.00 mm</td>
</tr>
<tr>
<td>Exposed</td>
<td>26.00 mm</td>
<td>1.02 in</td>
</tr>
</tbody>
</table>

**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**
**BD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>47.35 mm</td>
</tr>
<tr>
<td></td>
<td>1.86 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>17.20 mm</td>
</tr>
<tr>
<td></td>
<td>0.68 in</td>
</tr>
</tbody>
</table>

MAX DIA: 34.15 mm 1.34 in
OVERALL WT: 105.00 g 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
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)

<table>
<thead>
<tr>
<th>Country</th>
<th>Models</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>D-1-U</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>MS-1</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>MS-3A</td>
<td>23</td>
</tr>
<tr>
<td>Former Czechoslovakia</td>
<td>VDM</td>
<td>24</td>
</tr>
<tr>
<td>Former Soviet Union</td>
<td>T-1</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>T-7</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>T-90</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td>TM-120</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>V-90</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>VM-30</td>
<td>54</td>
</tr>
<tr>
<td></td>
<td>VM-30-L</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>VM-30-L1</td>
<td>56</td>
</tr>
<tr>
<td>Former Yugoslavia</td>
<td>M66</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td>M67</td>
<td>70, 71</td>
</tr>
<tr>
<td>France</td>
<td>FH-81B</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>FR55B</td>
<td>26</td>
</tr>
<tr>
<td>Germany</td>
<td>DM 123</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>DM 143</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>DM 153</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>DM 163</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>DM 163 MOD.</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>DM 33</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>DM 42</td>
<td>28, 30</td>
</tr>
<tr>
<td></td>
<td>DM 52</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>DM-93</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>DM-93A1</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>MTSQ 93</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>No. 504</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>T-7</td>
<td>40</td>
</tr>
<tr>
<td>India</td>
<td>213 MK 5 (M-1)</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>213P MK 5 (M-2)</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>213P MK 5 (M-3)</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>213P MK 5 (M-4)</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>447</td>
<td>45</td>
</tr>
</tbody>
</table>
ITALY
  FB338 A ................................................. 46
SINGAPORE
  KAPTEIN EF-784 ........................................ 47
SOUTH AFRICA
  M8611A1 .................................................. 48
  M9220A1 .................................................. 49
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  B100 C1 .................................................. 63
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  EC 002 B .................................................. 59
  MMT 70 ................................................... 60
  MT B100 C ................................................ 62
  MT B46 A1 ................................................ 61
SWEDEN
  UNKNOWN .................................................. 64
UNITED KINGDOM
  208 MK3 .................................................. 66
  213 MK4/2 ............................................... 67
  221B MK6Be ............................................. 68
  L34A2 ..................................................... 65
LENGTH: 
Overall: 114.00 mm 4.49 in
Exposed: 70.00 mm 2.76 in

MAX DIA: 47.30 mm 1.86 in
OVERALL WT: 570.70 g 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.
MT

LENGTH: MAX DIA: 64.00 mm
Overall: 135.00 mm 2.52 in
Exposed: 106.00 mm OVERALL WT: 550.00 g
5.32 in 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
<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH:</td>
<td></td>
</tr>
<tr>
<td>Overall:</td>
<td>97.00 mm (3.82 in)</td>
</tr>
<tr>
<td>Exposed:</td>
<td>67.00 mm (2.64 in)</td>
</tr>
<tr>
<td>MAX DIA:</td>
<td>66.00 mm (2.60 in)</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>462.00 g (16.29 oz)</td>
</tr>
<tr>
<td>MATERIAL:</td>
<td>Aluminum and phenolic</td>
</tr>
<tr>
<td>ORD USED WITH:</td>
<td>Ejection-type mortar projectiles</td>
</tr>
<tr>
<td>COMMENTS:</td>
<td>In-flight arming delay of at least 3 seconds.</td>
</tr>
</tbody>
</table>
MT

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

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

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

FORMER CZECHOSLOVAKIA VDM
MT

LENGTH:  
Overall: 68.00 mm  
2.68 in  
Exposed 57.00 mm  
2.24 in

MAX DIA: 77.00 mm  
3.03 in

MAX DIA: 77.00 mm  
3.03 in

OVERALL WT: 967.00 g  
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.
MTSQ

LENGTH:
Overall: 145.50 mm
Exposed: 95.00 mm

MAX DIA: 62.50 mm
OVERALL WT: Unknown

MAX DIA: 2.46 in
OVERALL WT: Unknown

MATERIAL: Aluminum
ORD USED WITH: Rocket

COMMENTS: 110-mm LAR rocket system.

DM 33
GERMANY
ET

LENGTH:  
Overall: 206.95 mm 8.15 in  
Exposed: 110.35 mm 4.34 in

MAX DIA: 83.00 mm 3.27 in

OVERALL WT: Unknown

MATERIAL: Aluminum

ORD USED WITH: Rockets

COMMENTS: None.

GERMANY  DM 42
LENGTH:
Overall: 134.80 mm 5.31 in
Exposed: 96.50 mm 3.80 in
MAX DIA: 60.90 mm 2.40 in
OVERALL WT: 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: Overall: 80.10 mm 3.15 in
Exposed: 69.60 mm 2.74 in

MAX DIA: 73.00 mm 2.87 in
OVERALL WT: Unknown

MATERIAL: Aluminum

ORD USED WITH: 84-mm Carl Gustav projectiles

COMMENTS: Hand settable in meters.

GERMANY DM 42
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 88.00 mm</td>
<td>49.00 mm</td>
</tr>
<tr>
<td>Exposed: 61.00 mm</td>
<td>1.93 in</td>
</tr>
</tbody>
</table>

OVERALL WT: 223.00 g

OVERALL WT: 7.87 oz

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

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

LENGTH:  
Overall: 90.00 mm  
Exposed: 60.00 mm  
MAX DIA: 49.00 mm  
OVERALL WT: 241.00 g

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum time setting of 54 seconds.

GERMANY

DM-93A1
MTSQ

LENGTH:  
Overall 90.00 mm 3.54 in  
Exposed 60.00 mm 2.36 in

MAX DIA: 49.00 mm 1.93 in

OVERALL WT: 241.00 g 8.50 oz

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: German design, unknown manufacturer.
MTSQ

LENGTH:
Overall: 87.60 mm
Exposed: 60.10 mm

MAX DIA:
49.00 mm

OVERALL WT:
Unknown

MAX DIA:
1.93 in

OVERALL WT:
Unknown

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Used in smooth or rifled bore weapons.

GERMANY

DM 123
**MTSQ**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 152.20 mm</td>
<td>60.90 mm</td>
</tr>
<tr>
<td>5.99 in</td>
<td>2.40 in</td>
</tr>
<tr>
<td>Exposed: 96.00 mm</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td>3.78 in</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

MATERIAL: Unknown

ORD USED WITH: Artillery projectiles

COMMENTS: None.
MTSQ

LENGTH: MAX DIA: 60.90 mm
Overall: 117.30 mm 2.40 in
Exposed 96.40 mm OVERALL WT: Unknown
6.80 mm 3.80 in Unknown

MATERIAL: Unknown

ORD USED WITH: Artillery projectiles

COMMENTS: None.

GERMANY DM 153
MTSQ

LENGTH:  
Overall: 134.65 mm  
Exposed: 96.40 mm  
MAX DIA: 60.90 mm  
OVERALL WT: 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
Exposed 96.4 mm  OVERALL WT: Unknown
5.82 in
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.
MTSQ

LENGTH:
Overall: 118.00 mm 4.65 in
Exposed: 68.00 mm 2.68 in

MAX DIA: 83.70 mm 3.30 in

OVERALL WT: Unknown

MATERIAL: Aluminum

ORD USED WITH: 84-mm Carl Gustav projectiles

COMMENTS: Hand settable in meters.
PTT

LENGTH: MAX DIA: 64.00 mm
Overall: 157.00 mm 2.52 in
6.18 in
Exposed 128.00 mm OVERALL WT: 605.00 g
5.04 in 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
MT

LENGTH: 
Overall: 127.50 mm 5.01 in
Exposed 88.30 mm 3.48 in

MAX DIA: 61.00 mm 2.40 in

OVERALL WT: 990.00 g 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
Exposed 88.30 mm OVERALL WT: 950.00 g
 4.66 in 3.48 in 33.51 oz

MATERIAL: Unknown

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up function.
MT

LENGTH: MAX DIA: 61.00 mm
Overall: 118.40 mm 2.40 in
Exposed 88.30 mm OVERALL WT: 625.00 g
4.66 in 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:
Overall: 118.40 mm 61.00 mm
        4.66 in 2.40 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:
Overall: 120.50 mm 4.74 in
Exposed: 69.50 mm 2.74 in

MAX DIA:
83.80 mm 3.30 in

OVERALL WT:
725 g 25.57 oz

MATERIAL: Aluminum

ORD USED WITH: 84-mm Carl Gustav

COMMENTS: Impact superquick back-up function.
**MT**

LENGTH:  
Overall: 157.00 mm  
6.18 in  
Exposed 138.00 mm  
5.43 in

MAX DIA: 70.00 mm  
2.76 in

MAX DIA: 70.00 mm  
2.76 in

OVERALL WT: 140.00 g  
4.94 oz

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: Maximum setting of 50 seconds.
LENGTH:  Overall: 139.90 mm  5.51 in
         Exposed: 95.50 mm  3.76 in
MAX DIA:  61.20 mm  2.41 in
OVERALL WT:  550.00 g  19.04 oz

MATERIAL: Aluminum and brass

ORD USED WITH: Artillery projectiles

COMMENTS: Manually set without equipment.

KAPTEIN EF-784  SINGAPORE
ET

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

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

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

<table>
<thead>
<tr>
<th></th>
<th>Overall</th>
<th>Exposed</th>
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<tbody>
<tr>
<td></td>
<td>151.45 mm</td>
<td>95.50 mm</td>
</tr>
<tr>
<td></td>
<td>5.96 in</td>
<td>3.76 in</td>
</tr>
</tbody>
</table>

**MAX DIA:**

- 61.25 mm (2.41 in)

**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
    Overall:     71.00 mm        1.57 in
                 2.80 in
    Exposed:     60.00 mm        OVERALL WT:  188.00 g
                 2.36 in             6.63 oz

MATERIAL:  Aluminum and steel
ORD USED WITH:  Ejection-type mortar projectile

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

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
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<tbody>
<tr>
<td>Overall: 157.00 mm</td>
<td>64.00 mm</td>
</tr>
<tr>
<td>Exposed: 128.00 mm</td>
<td>OVERALL WT: 712.00 g</td>
</tr>
<tr>
<td>6.18 in</td>
<td>2.52 in</td>
</tr>
<tr>
<td>5.04 in</td>
<td>25.11 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum and brass

**ORD USED WITH:** Ejection-type mortar projectiles

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

LENGTH:
  Overall: 108.00 mm
  4.25 in
  Exposed 61.00 mm
  2.40 in

MAX DIA: 41.00 mm
  1.61 in

OVERALL WT: 363.60 g
  12.83 oz

MATERIAL: Aluminum and steel

ORD USED WITH: Ejection-type artillery projectiles

COMMENTS: None.
**MT**

LENGTH:  
Overall: 198.50 mm  
7.81 in  
Exposed: 141.50 mm  
5.57 in

MAX DIA: 63.55 mm  
2.50 in

OVERALL WT: 694.00 g  
24.48 oz

MATERIAL: Aluminum and steel

ORD USED WITH: Ejection-type rockets

COMMENTS: None.
MT

LENGTH: 
Overall: 135.00 mm  
5.31 in 
Exposed 109.00 mm  
4.29 in

MAX DIA: 64.00 mm  
2.52 in

OVERALL WT: 876.00 g  
30.90 oz

MATERIAL: Aluminum and steel

ORD USED WITH: Artillery projectiles

COMMENTS: No visible time setting markings.

FORMER SOVIET UNION VM-30
LENGTH:  
Overall: 136.00 mm  5.35 in
Exposed: 107.00 mm  4.21 in

MAX DIA: 64.00 mm  2.52 in
OVERALL WT: 789.00 g  27.83 oz

MATERIAL: Aluminum and steel
ORD USED WITH: Artillery projectiles
COMMENTS: No visible time setting markings.
MT

LENGTH: MAX DIA:
Overall: 136.00 mm 64.00 mm
5.35 in 2.52 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
MTSQ

LENGTH:  
Overall: 108.00 mm  4.25 in  
Exposed: 61.00 mm  2.40 in

MAX DIA: 40.00 mm  1.57 in

OVERALL WT: 482.00 g  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**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>209.00 mm</td>
<td>2.48 in</td>
</tr>
<tr>
<td></td>
<td>8.23 in</td>
<td></td>
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<tr>
<td>Exposed:</td>
<td>107.00 mm</td>
<td>4.21 in</td>
</tr>
<tr>
<td></td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

**MATERIAL:** Unknown

**ORD USED WITH:** Rockets

**COMMENTS:** Fuze time set by remote fuze setter.
LENGTH: Overall: 153.00 mm 6.02 in
Exposed: 0.00 mm 0.00 in
MAX DIA: 59.50 mm 2.34 in
OVERALL WT: Unknown Unknown

MATERIAL: Unknown
ORD USED WITH: Rockets
COMMENTS: Fuze time set by a remote fuze setter.
MT

LENGTH: 
Overall: 95.30 mm 3.75 in
Exposed: 77.20 mm 3.04 in
MAX DIA: 49.00 mm 1.93 in
OVERALL WT: Unknown

MATERIAL: Unknown
ORD USED WITH: Mortar projectiles

COMMENTS: Manual time setting.
MT

LENGTH:  
Overall: 145.00 mm 5.71 in  
Exposed: 89.20 mm 5.51 in

MAX DIA: 75.40 mm 2.97 in  
OVERALL WT: 1290.00 g 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

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA</th>
<th>OVERALL WT</th>
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<tbody>
<tr>
<td>Overall</td>
<td>164.50 mm</td>
<td>61.00 mm</td>
</tr>
<tr>
<td>Exposed</td>
<td>95.30 mm</td>
<td>1038.00 g</td>
</tr>
</tbody>
</table>

6.48 in
3.75 in

MATERIAL: Unknown
ORD USED WITH: Rockets
COMMENTS: Modified M564 fuze.
**MTSQ**

<table>
<thead>
<tr>
<th>MEASUREMENT</th>
<th>VALUE</th>
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<tbody>
<tr>
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<td>148.47 mm</td>
<td>5.85 in</td>
</tr>
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<td>Exposed LENGTH</td>
<td>96.00 mm</td>
<td>3.78 in</td>
</tr>
<tr>
<td>MAX DIA</td>
<td>61.00 mm</td>
<td>2.40 in</td>
</tr>
<tr>
<td>OVERALL WT</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

**MATERIAL:** Unknown

**ORD USED WITH:** Artillery

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

![MTSQ Image](image_url)
**MTSQ**

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

MATERIAL: Aluminum

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

COMMENTS: None.

---

![MTSQ Image]

---

**SWEDEN**

---

64
MT

LENGTH:
Overall: 116.50 mm 4.59 in
Exposed: 95.00 mm 3.74 in

MAX DIA: 61.00 mm 2.40 in
OVERALL WT: 918.00 g 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
Exposed 111.00 mm OVERALL WT: 1145.00 g
  6.69 in  4.37 in  40.38 oz

MATERIAL: Aluminum and brass
ORD USED WITH: Artillery projectiles
COMMENTS: No impact back-up.

UNITED KINGDOM 208 MK3
MTSQ

LENGTH:
Overall: 124.00 mm  4.88 in
Exposed: 85.00 mm  3.35 in

MAX DIA: 61.00 mm  2.40 in

OVERALL WT: 990.00 g  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:  
Overall: 121.00 mm  4.76 in
Exposed 103.00 mm  4.06 in

MAX DIA: 61.00 mm  2.40 in
OVERALL WT: 929.00 g  32.77 oz

MATERIAL: Brass and steel

ORD USED WITH: Artillery projectiles

COMMENTS: Has an impact back-up.
PTT

LENGTH:
Overall: 103.00 mm 4.06 in
Exposed: 76.00 mm 2.99 in

MAX DIA: 104.00 mm 4.09 in

OVERALL WT: 1269.00 g 44.76 oz

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum setting of 50 seconds.
PTT

**LENGTH:**
- Overall: 65.00 mm (2.56 in)
- Exposed: 56.00 mm (2.20 in)

**MAX DIA:** 58.00 mm (2.30 in)

**OVERALL WT:** 263.00 g (9.28 oz)

**MATERIAL:** Aluminum

**ORD USED WITH:** Ejection-type mortar projectiles

**COMMENTS:** No impact back-up. Maximum time setting of 35 seconds.
LENGTH:
Overall: 76.00 mm 2.99 in
Exposed: 67.00 mm 2.64 in

MAX DIA: 79.00 mm 3.11 in

OVERALL WT: 573.00 g 20.21 oz

MATERIAL: Aluminum

ORD USED WITH: Ejection-type mortar projectiles

COMMENTS: Maximum setting of 38 seconds.

M67 FORMER YUGOSLAVIA

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(Reverse Blank)
LENGTH: | MAX DIA:  
---|---
Overall: 86.55 mm | 49.00 mm  
3.41 in | 1.93 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.
PD

LENGTH:
Overall: 88.00 mm
3.46 in
Exposed: 60.00 mm
2.37 in

MAX DIA: 50.00 mm
1.97 in

OVERALL WT: 239.00 g
8.43 oz

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: None.

BELGIUM

NR 2444
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>115.00 mm</td>
</tr>
<tr>
<td></td>
<td>4.53 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>88.30 mm</td>
</tr>
<tr>
<td></td>
<td>3.48 in</td>
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**MATERIAL:** Steel

**ORD USED WITH:** 90-mm artillery projectiles

**COMMENTS:** None.
PD

LENGTH: 
Overall: 148.42 mm  
5.84 in  
Exposed: Unknown  
OVERALL WT: 590.00 g  
20.81 oz

MAX DIA: 61 mm  
2.40 in

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery and mortar projectiles

COMMENTS: Similar to the U.S. M557 fuze.
LENGTH: Overall: 153.00 mm 6.02 in Exposed: 100.00 mm 3.94 in
MAX DIA: 65.00 mm 2.56 in
OVERALL WT: 465.70 g 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.
PD

LENGTH:
Overall: 66.00 mm 2.60 in
Exposed: 47.00 mm 1.85 in

MAX DIA 40.00 mm 1.57 in

OVERALL WT: 110.00 g 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:
 overall: 80.00 mm 3.15 in
 exposed: 52.00 mm 2.05 in

MAX DIA: 49.00 mm 1.93 in
OVERALL WT: 240.00 g 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.
PD

LENGTH:
Overall: 100.00 mm  3.94 in
Exposed: 55.00 mm  2.17 in

MAX DIA: 40.00 mm  1.57 in
OVERALL WT: 459.00 g  16.19 oz

MATERIAL: Steel

ORD USED WITH: Artillery projectile

COMMENTS: Delay or instantaneous settings.

BULGARIA

OFZ-1
PD

LENGTH:
Overall: 100.50 mm
Exposed: 54.00 mm

MAX DIA:
40.00 mm

OVERALL WT:
483.00 g

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous or delay setting.

OFZ-2M BULGARIA
**PD**

LENGTH:  
Overall: 117.00 mm  
Exposed: 75.00 mm  

MAX DIA: 40.00 mm  

OVERALL WT: 190.80 g  

**MATERIAL:** Aluminum  

**ORD USED WITH:** Artillery projectiles  

**COMMENTS:** None.
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>105.71 mm</td>
</tr>
<tr>
<td></td>
<td>4.16 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>58.91 mm</td>
</tr>
<tr>
<td></td>
<td>2.32 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>450.00 g</td>
</tr>
<tr>
<td></td>
<td>15.87 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Steel

**ORD USED WITH:** Artillery projectiles

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

LENGTH: MAX DIA: OVERALL WT:
Overall: 196.00 mm 64.00 mm 955.80 g
7.72 in 2.52 in 33.71 oz
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.
LENGTH:  
Overall: 122.00 mm  4.80 in  
Exposed: 76.00 mm  2.99 in  

MAX DIA: 40.00 mm  1.57 in  
OVERALL WT: 694.00 g  24.48 oz  

MATERIAL: Steel  
ORD USED WITH: Rocket  
COMMENTS: Selector markings can be found in Cyrillic or English.
PD

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

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.
LENGTH: Overall: 86.55 mm 3.41 in Exposed: 60.00 mm 2.36 in

MAX DIA: 49.00 mm 1.93 in

OVERALL WT: 189.00 g 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.
### PD

**LENGTH:**
- Overall: 118.00 mm (4.65 in)
- Exposed: 74.00 mm (2.91 in)

**MAX DIA:** 50.00 mm (1.97 in)

**OVERALL WT:** 511.10 g (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.
PD

LENGTH:
Overall: 122.00 mm
Exposed: 78.00 mm

MAX DIA:
40.00 mm

OVERALL WT:
683.90 g

MAX DIA:
40.00 mm

OVERALL WT:
683.90 g

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:  Overall: 196.00 mm  7.72 in
         Exposed: 141.00 mm  5.55 in
MAX DIA:  64.00 mm  2.52 in
OVERALL WT:  940.90 g  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
**PD**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th>64.00 mm</th>
<th>2.52 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>Overall:</td>
<td>196.00 mm</td>
<td>7.72 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>Exposed:</td>
<td>141.00 mm</td>
<td>5.55 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>OVERALL WT:</td>
<td>955.80 g</td>
<td>33.71 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Steel and bakelite

**ORD USED WITH:** Rocket

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

LENGTH: MAX DIA:
Overall: 85.00 mm 38.90 mm
3.35 in 1.53 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.
PDSD

LENGTH:  
Overall: 82.00 mm  3.23 in  
Exposed: 63.00 mm  2.48 in

MAX DIA: 30.00 mm  1.18 in

OVERALL WT: 156.00 g  5.50 oz

MATERIAL: Steel

ORD USED WITH: 37-mm antiaircraft artillery projectiles


ML-1  CHINA
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 105.00 mm 4.13 in</td>
<td>40.00 mm 1.57 in</td>
</tr>
<tr>
<td>Exposed 60.00 mm 2.36 in</td>
<td>OVERALL WT: 433.70 g 15.30 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Steel

**ORD USED WITH:** Artillery projectile

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

---

**CHINA ML-4**
PD

LENGTH:  MAX DIA:

Overall: 115.00 mm 40.00 mm
  4.53 in 1.57 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.
PD

LENGTH:         MAX DIA:
Overall: 106.00 mm        40.00 mm
           4.17 in          1.57 in
Exposed:  59.00 mm        OVERALL WT:
           2.32 in         570.00 g
                                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.
**PD**

<table>
<thead>
<tr>
<th>Length</th>
<th>MAX Dia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 158.00 mm</td>
<td>64.00 mm</td>
</tr>
<tr>
<td>Exposed: 100.00 mm</td>
<td>OVERALL WT: 430.90 g</td>
</tr>
<tr>
<td>6.22 in</td>
<td>2.52 in</td>
</tr>
<tr>
<td>3.94 in</td>
<td>15.20 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Steel

**ORD USED WITH:** Artillery projectiles

**COMMENTS:** Superquick or delay settings.

ML-7

CHINA
PD

LENGTH:  
Overall: 72.00 mm  
2.83 in  
Exposed 37.00 mm  
1.46 in

MAX DIA:  40.00 mm  
1.57 in

OVERALL WT:  107.00 g  
3.77 oz

MATERIAL: Steel and bakelite

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick.

CHINA

MP-1A
PD

LENGTH:  
Overall: 74.00 mm  
2.91 in  
Exposed: 37.00 mm  
1.46 in  
MAX DIA: 40.00 mm  
1.57 in  
OVERALL WT: 110.90 g  
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.
PD

LENGTH: MAX DIA: 40.00 mm
Overall: 119.00 mm 1.57 in
Exposed: 73.00 mm OVERALL WT: 516.40 g
4.69 in 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:  
Overall: 96.00 mm 3.78 in
Exposed: 69.00 mm 2.72 in

MAX DIA: 49.00 mm 1.93 in
OVERALL WT: 234.20 g 8.26 oz

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles


MP-5B
CHINA
**PD**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th>OVERALL WT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 93.00 mm</td>
<td>46.00 mm</td>
<td>198.00 g</td>
</tr>
<tr>
<td>Exposed: 70.00 mm</td>
<td>46.00 mm</td>
<td>198.00 g</td>
</tr>
<tr>
<td></td>
<td>3.66 in</td>
<td>6.98 oz</td>
</tr>
<tr>
<td></td>
<td>2.76 in</td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum

**ORD USED WITH:** Mortar projectiles

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

**CHINA MP-6**
### PD

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 90.00 mm</td>
<td>49.00 mm</td>
</tr>
<tr>
<td>Exposed: 49.00 mm</td>
<td>1.93 in</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OVERALL WT:</th>
<th>MAT: Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>229.00 g</td>
<td></td>
</tr>
<tr>
<td>8.08 oz</td>
<td></td>
</tr>
</tbody>
</table>

**ORD USED WITH:** Mortar projectiles

**COMMENTS:** Superquick. Muzzle safe distance of 30 meters.

---

**MP-7A**

**CHINA**
PDSD

LENGTH:          MAX DIA:        OVERALL WT:        MATERIAL:  Steel and bakelite
Overall: 77.00 mm               40.00 mm            103.00 g            ORD USED WITH: Mortar projectiles
           3.03 in
Exposed  61.00 mm               2.40 in
          2.40 in
OVERALL WT: 103.00 g
3.63 oz

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

CHINA TYPE-1
LENGTH:  Overall: 122.00 mm  4.80 in
        Exposed: 76.00 mm  2.99 in
MAX DIA: 40.00 mm  1.57 in
OVERALL WT: 694.01 g  24.48 oz

MATERIAL: Steel
ORD USED WITH: Rocket

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

LENGTH:  
Overall: 103.00 mm  
Exposed: 45.00 mm  
MAX DIA: 40.00 mm  
OVERALL WT: 400.00 g

MATERIAL: Steel

ORD USED WITH: Recoilless rifle projectiles

COMMENTS: This fuze has a cocked detonator.

TYPE-1  CHINA
PD

LENGTH: 
Overall: 77.00 mm 
3.03 in 
Exposed: 46.00 mm 
1.81 in 

MAX DIA: 40.00 mm 
1.57 in 

OVERALL WT: 370.00 g 
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:  
Overall: 103.00 mm  
3.50 in  
Exposed: 45.00 mm  
1.77 in  
MAX DIA: 40.00 mm  
1.30 in  
OVERALL WT: 394.63 g  
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.
PD

LENGTH:
Overall: 102.00 mm
Exposed: 48.00 mm

MAX DIA: 41.00 mm
OVERALL WT: 405.00 g

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:  
Overall: 89.00 mm  3.50 in
Exposed: 34.00 mm  1.34 in

MAX DIA: 33.00 mm  1.30 in

OVERALL WT: 154.22 g  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.
PD

LENGTH:  
Overall: 91.00 mm 3.58 in  
Exposed 41.00 mm 1.61 in

MAX DIA: 41.00 mm 1.61 in

OVERALL WT: 394.63 g 13.92 oz

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Instantaneous functioning.

CHINA TYPE-53
LENGTH:                         MAX DIA:  
Overall:  68.00 mm        40.00 mm
           2.68 in          1.57 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:  OVERALL WT:
Overall: 68.00 mm  40.00 mm  133.00 g
        2.68 in  1.57 in  4.69 oz
Exposed 36.00 mm  OVERALL WT: 133.00 g
        1.42 in

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
PD

LENGTH:  
Overall: 100.00 mm 3.94 in
Exposed 55.00 mm 2.17 in

MAX DIA: 40.00 mm 1.57 in

OVERALL WT: 439.00 g 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**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>94.00 mm</td>
<td>40.00 mm</td>
</tr>
<tr>
<td></td>
<td>3.70 in</td>
<td>1.57 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>40.00 mm</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td></td>
<td>1.57 in</td>
<td>357.00 g</td>
</tr>
</tbody>
</table>

OVERALL WT: 357.00 g

12.59 oz

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is a copy of the Former Soviet KTM-1. No selector.
LEN**TH:
{\hskip 10pt}Overall: 115.00 mm
                      4.53 in
{\hskip 10pt}Exposed: 69.00 mm
                      2.72 in

\HRule

MAX \hskip 5pt DIA: 64.00 mm
          2.52 in

OVERALL WT: 759.00 g
        26.77 oz

MATERIAL: Steel and bakelite

ORD USED WITH: Rocket

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

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA</th>
<th>OVERALL WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 91.00 mm</td>
<td>40.00 mm</td>
<td>436.00 g</td>
</tr>
<tr>
<td>Exposed: 47.00 mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

|            |         |            |
| 3.58 in    | 1.57 in | 15.38 oz   |
| 1.85 in    |         |            |

**MATERIAL:** Steel

**ORD USED WITH:** Mortar projectiles

**COMMENTS:** Instantaneous or delay settings.

**FORMER CZECHOSLOVAKIA**

mz30av
LENGTH:  
Overall: 103.00 mm 4.06 in
Exposed: 58.00 mm 2.28 in

MAX DIA: 40.00 mm 1.57 in

OVERALL WT: 386.00 g 13.62 oz

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

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

LENGTH:  
Overall: 107.00 mm  
4.21 in  
Exposed: 60.00 mm  
2.36 in

MAX DIA: 40.00 mm  
1.57 in

OVERALL WT: 529.00 g  
18.66 oz

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Superquick or delay settings.
PD

LENGTH:  
Overall: 118.00 mm 4.65 in 
Exposed 53.00 mm 2.09 in 
MAX DIA: 40.00 mm 1.57 in 
OVERALL WT: 538.00 g 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
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>87.00 mm</td>
</tr>
<tr>
<td></td>
<td>3.43 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>50.00 mm</td>
</tr>
<tr>
<td></td>
<td>1.97 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>129.00 g</td>
</tr>
<tr>
<td></td>
<td>4.55 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Steel and lead  

**ORD USED WITH:** Mortar projectiles  

**COMMENTS:** Graze sensitive.
PD

LENGTH:
Overall: 147.00 mm 5.79 in
Exposed 74.00 mm 2.91 in

MAX DIA: 30.00 mm 1.18 in

OVERALL WT: 269.00 g 9.49 oz

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: This fuze may also be manufactured by Singapore.

FINLAND IS 72
LENGTH: Overall: 150.00 mm 5.91 in Exposed: 96.00 mm 3.78 in

MAX DIA: 61.00 mm 2.40 in

OVERALL WT: 966.30 g 34.08 oz

MATERIAL: Steel
ORD USED WITH: Artillery projectiles
COMMENTS: None.

FUI 56
FRANCE
PDSD

LENGTH:
Overall: 139.65 mm 5.50 in
Exposed: 83.85 mm 3.30 in

MAX DIA: 48.00 mm 1.89 in

OVERALL WT: 524.00 g 18.48 oz

MATERIAL: Steel

ORD USED WITH: 90-mm artillery projectiles

COMMENTS: None.
LENGTH:  
Overall: 150.00 mm  5.91 in  
Exposed: 96.00 mm  3.78 in  

MAX DIA: 61.00 mm  2.40 in  

OVERALL WT: 870.90 g  30.72 oz  

MATERIAL: Steel  
ORD USED WITH: Artillery projectiles  

COMMENTS: None.
PD

LENGTH:
Overall: 112.00 mm 4.41 in
Exposed: 59.00 mm 2.32 in

MAX DIA: 37.00 mm 1.46 in

OVERALL WT: 238.00 g 8.40 oz

MATERIAL: Aluminum and Steel

ORD USED WITH: Mortar projectiles

COMMENTS: None.

FRANCE Fu.I.Mo.F1
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>148.80 mm</td>
</tr>
<tr>
<td></td>
<td>5.86 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>95.10 mm</td>
</tr>
<tr>
<td></td>
<td>3.74 in</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL:** Steel

**ORD USED WITH:** Artillery projectiles

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

LENGTH:  
Overall: 118.00 mm 4.65 in  
Exposed 53.00 mm 2.09 in

MAX DIA: 31.00 mm 1.22 in

OVERALL WT: 213.00 g 7.51 oz

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: None.

FRANCE  Mle-1918-I
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 88.00 mm</td>
<td>28.00 mm</td>
</tr>
<tr>
<td>Exposed: 50.00 mm</td>
<td>50.00 mm</td>
</tr>
</tbody>
</table>

- **MAX DIA:** 28.00 mm (1.10 in)
- **OVERALL WT:** 134.00 g (4.73 oz)

**MATERIAL:** Brass and lead

**ORD USED WITH:** Mortar projectiles

**COMMENTS:** Graze sensitive.

---

21/28B Mle 1935M

FRANCE
PD

LENGTH:
Overall: 114.00 mm 4.49 in
Exposed 51.00 mm 2.01 in

MAX DIA: 33.00 mm 1.30 in

OVERALL WT: 207.00 g 7.30 oz

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: None.

FRANCE RYG-18
LENGTH:
Overall: 214.00 mm
Exposed: 159.00 mm

MAX DIA: 64.00 mm

OVERALL WT: 912.00 g

MATERIAL: Aluminum
ORD USED WITH: 122-mm rockets
COMMENTS: Instantaneous and delay settings.
**PD**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 77.00 mm</td>
<td>46.00 mm</td>
</tr>
<tr>
<td>3.03 in</td>
<td>1.81 in</td>
</tr>
<tr>
<td>Exposed 54.00 mm</td>
<td></td>
</tr>
<tr>
<td>2.13 in</td>
<td></td>
</tr>
</tbody>
</table>

OVERALL WT: 119.00 g

4.20 oz

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Non-delay or superquick settings.

---

**FRANCE**

**SC.14.E**
PD

LENGTH:              MAX DIA: 38.00 mm
Overall: 115.00 mm  1.50 in
Exposed 53.00 mm  2.10 in

OVERALL WT: 136.00 g
4.80 oz

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

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

V-9 FRANCE
PD

LENGTH: 
Overall: 114.00 mm  
Exposed: 54.00 mm 
MAX DIA: 32.00 mm 
OVERALL WT: 220.00 g

MATERIAL: Brass and lead
ORD USED WITH: Mortar projectiles

COMMENTS: Graze sensitive.
PD

LENGTH:  
Overall: 106.00 mm  
4.17 in  
Exposed 81.00 mm  
3.19 in

MAX DIA: 48.00 mm  
1.89 in

OVERALL WT: 381.00 g  
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
Overall: 132.00 mm 2.39 in
Exposed 77.00 mm OVERALL WT: 481.00 g
5.20 in 3.03 in 16.97 oz

MATERIAL: Aluminum

ORD USED WITH: 120-mm rifled mortar projectiles

COMMENTS: None.

FRANCE VG-29-A
PD

LENGTH: | MAX DIA:
---|---
Overall: 75.00 mm | Unknown
2.95 in | Unknown
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.
<table>
<thead>
<tr>
<th>PD</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH:</td>
</tr>
<tr>
<td>Overall: 88.30 mm</td>
</tr>
<tr>
<td>3.48 in</td>
</tr>
<tr>
<td>Exposed: 60.80 mm</td>
</tr>
<tr>
<td>2.39 in</td>
</tr>
</tbody>
</table>

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Delay or superquick settings.
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
PD

LENGTH:
Overall: 87.00 mm 3.43 in
Exposed: 61.00 mm 2.40 in

MAX DIA: 49.00 mm 1.93 in

OVERALL WT: 291.00 g 10.26 oz

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

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

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
<th>Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length</td>
<td>87.00 mm</td>
<td>3.43 in</td>
</tr>
<tr>
<td>Exposed Length</td>
<td>61.00 mm</td>
<td>2.40 in</td>
</tr>
<tr>
<td>Max Dia</td>
<td>49.00 mm</td>
<td>1.93 in</td>
</tr>
<tr>
<td>Overall Weight</td>
<td>201.00 g</td>
<td>7.09 oz</td>
</tr>
</tbody>
</table>

**Material:** Aluminum

**ORD Used With:** Mortar projectiles

**Comments:** Superquick or delay settings.

**GERMANY**

DM-111A5
PDSD

LENGTH:
Overall: 56.50 mm  2.22 in
Exposed: 41.00 mm  1.61 in

MAX DIA: 28.50 mm  1.12 in

OVERALL WT: Unknown

MATERIAL: Aluminum

ORD USED WITH: 30-mm DEFA projectiles

COMMENTS: Graze sensitive.
PDSD

LENGTH:
Overall: 78.61 mm
3.09 in
Exposed: 42.20 mm
1.66 in

MAX DIA: Unknown

OVERALL WT: Unknown

MAX DIA: Unknown

OVERALL WT: Unknown

MATERIAL: Aluminum

ORD USED WITH: 40-mm L/70 projectiles

COMMENTS: Graze sensitive.

GERMANY DM 321
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 124.85 mm</td>
<td>61.65 mm</td>
</tr>
<tr>
<td>Exposed: 67.98 mm</td>
<td>2.43 in</td>
</tr>
<tr>
<td>OVERALL WT: Unknown</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Delay of 10 to 20 ms after impact.
PDSD

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 45.75 mm</td>
<td>18.44 mm</td>
</tr>
<tr>
<td>Exposed: 25.00 mm</td>
<td>0.98 in</td>
</tr>
</tbody>
</table>

OVERALL WT: Unknown

MATERIAL: Aluminum

ORD USED WITH: 25-mm projectiles

COMMENTS: Graze sensitive.
PDSD

LENGTH:  
Overall: 63.01 mm  
Exposed: 34.93 mm  
MAX DIA: 21.75 mm

OVERALL WT: Unknown

MATERIAL: Aluminum

ORD USED WITH: 30-mm projectiles

COMMENTS: Graze sensitive.

NO. 569  
GERMANY
PD

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>88.60 mm</td>
</tr>
<tr>
<td>Exposed</td>
<td>61.10 mm</td>
</tr>
<tr>
<td></td>
<td>49.00 mm</td>
</tr>
<tr>
<td></td>
<td>1.93 in</td>
</tr>
<tr>
<td></td>
<td>2.40 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>Unknown</td>
</tr>
<tr>
<td></td>
<td>Unknown</td>
</tr>
</tbody>
</table>

MATERIAL: Plastic

ORD USED WITH: Mortar projectiles

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

LENGTH:

Overall: 106.30 mm
4.18 in

Exposed: 77.30 mm
3.04 in

MAX DIA: 48.00 mm
1.89 in

OVERALL WT: 372.00 g
13.12 oz

MATERIAL: Aluminum and brass

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous or delay settings.
**PD**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA</th>
<th>MATERIAL</th>
<th>ORD USED WITH</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 87.00 mm</td>
<td>49.00 mm</td>
<td>Aluminum</td>
<td>Mortar projectiles and rockets</td>
<td>This fuze is similar to the German DM-111.</td>
</tr>
<tr>
<td>Exposed: 61.00 mm</td>
<td>1.93 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.40 in</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OVERALL WT: 201.00 mm</td>
<td>7.09 oz</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LENGTH: Overall: 151.00 mm 5.94 in
Exposed: 94.00 mm 3.70 in
MAX DIA: 61.00 mm 2.40 in
OVERALL WT: 1048.00 g 36.96 oz
MATERIAL: Steel
ORD USED WITH: Artillery projectiles
COMMENTS: This fuze is a copy of the U.S. M572A1.
LENGTH: Overall: 80.00 mm 3.15 in Exposed 61.00 mm 2.40 in
MAX DIA: 46.00 mm 1.81 in
OVERALL WT: 159.00 g 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:  
Overall: 165.00 mm  6.50 in 
Exposed 85.00 mm  3.35 in

MAX DIA:  61.00 mm  2.40 in

OVERALL WT:  1308.00 g  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.
PD

LENGTH:  
Overall: 63.00 mm  2.48 in
Exposed 35.00 mm  1.38 in

MAX DIA: 51.00 mm  2.01 in

OVERALL WT: 343.00 g  12.10 oz

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Copy of the British No. 161 fuze.

ISRAEL  No. 161
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 106.00 mm</td>
<td>36.00 mm</td>
</tr>
<tr>
<td>Overall: 4.17 in</td>
<td>1.42 in</td>
</tr>
<tr>
<td>Exposed: 54.00 mm</td>
<td>OVERALL WT: 294.00 g</td>
</tr>
<tr>
<td>Exposed: 2.13 in</td>
<td>10.37 oz</td>
</tr>
</tbody>
</table>

MATERIAL: Aluminum and brass

ORD USED WITH: Mortar projectiles

COMMENTS: Non-selectable fuze.
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.
LENGTH: Overall: 110.00 mm 4.33 in Exposed: 83.00 mm 3.27 in
MAX DIA: 50.00 mm 1.97 in
OVERALL WT: 583.00 g 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
Overall: 203.00 mm 2.44 in
Exposed 95.00 mm OVERALL WT: 922.00 g
7.99 in 3.74 in 32.52 oz
3.74 in

MATERIAL: Aluminum
ORD USED WITH: Naval projectile
COMMENTS: None.

ITALY

OP 76 Mod.1

166
PD

LENGTH: 
Overall: 87.60 mm  3.44 in
Exposed:  60.10 mm  2.36 in

MAX DIA: 49.00 mm  1.93 in
OVERALL WT: 200.00 g  7.05 oz

MATERIAL: Aluminum
ORD USED WITH: Mortar projectiles
COMMENTS: Superquick.

PD AJV 111
ITALY
PD

LENGTH:
Overall: 88.30 mm
Exposed: 60.80 mm

MAX DIA:
49.00 mm

OVERALL WT:
225 g

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay.

ITALY PD AJV 111 A3
LENGTH:  
Overall: 91.00 mm  
3.58 in  
Exposed: 67.00 mm  
2.64 in

MAX DIA: 46.00 mm  
1.81 in

OVERALL WT: 204.30 g  
7.21 oz

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

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

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
<th>OVERALL WT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 212.00 mm</td>
<td>64.00 mm</td>
<td>1814.00 g</td>
</tr>
<tr>
<td>Exposed: 112.00 mm</td>
<td>2.52 in</td>
<td>63.99 oz</td>
</tr>
<tr>
<td></td>
<td>8.35 in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.41 in</td>
<td></td>
</tr>
</tbody>
</table>

MATERIAL: Steel

ORD USED WITH: 200-mm rockets

COMMENTS: Instantaneous or delay settings.

**NORTH KOREA TYPE-20**

170
LENGTH:  
Overall:  104.00 mm  
Exposed:  75.00 mm  

MAX DIA:  40.00 mm  
OVERALL WT:  668.00 g  

MATERIAL: Steel  
ORD USED WITH: Rocket  
COMMENTS: None.

TYPE-107  
NORTH KOREA
PD

LENGTH:  
Overall: 90.50 mm  
3.56 in  
Exposed: 63.30 mm  
2.49 in

MAX DIA: 48.00 mm  
1.89 in

OVERALL WT: Unknown

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

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

LENGTH:  
Overall: 100.00 mm  
3.94 in  
Exposed: 73.00 mm  
2.87 in  

MAX DIA: 48.00 mm  
1.89 in  

OVERALL WT: 212.00 g  
7.48 oz  

MATERIAL: Aluminum  

ORD USED WITH: Mortar projectiles  

COMMENTS: None.
**PD**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th>OVERALL WT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 117.00 mm</td>
<td>43.00 mm</td>
<td>430.90 g</td>
</tr>
<tr>
<td>Exposed: 84.00 mm</td>
<td></td>
<td>15.20 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum

**ORD USED WITH:** 70-mm rocket

**COMMENTS:** None.

---

**PHILIPPINES**

**R77 FRK3**
PD

LENGTH:  
Overall: 90.50 mm  
3.56 in  
Exposed: 63.30 mm  
2.49 in

MAX DIA: Unknown  
OVERALL WT: 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
Overall:  116.70 mm   1.93 in
         4.59 in
Exposed  89.30 mm     OVERALL WT:  Unknown
         3.52 in    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.
LENGTH:  
Overall: 80.00 mm  
Exposed: 42.00 mm  
MAX DIA: 40.00 mm
OVERALL WT: 310.00 g

MATERIAL: Steel

ORD USED WITH: 37-mm antiaircraft artillery projectiles

PD

LENGTH:  MAX DIA:  
Overall: 79.57 mm  40.00 mm 
3.13 in  1.57 mm 
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.
LENGTH:  
Overall: 80.00 mm  
3.15 in  
Exposed: 40.00 mm  
1.57 in  
MAX DIA: 40.00 mm  
1.57 in  
OVERALL WT: 166.00 g  
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.
PD

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

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

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

ROMANIA 346E
LENGTH:
Overall: 115.00 mm
Exposed: 50.00 mm

MAX DIA:
31.35 mm

OVERALL WT:
207.00 g

MATERIAL: Brass

ORD USED WITH: Mortar projectiles

COMMENTS: Copy of the French RYG-18 fuze.
PD

LENGTH:
Overall: 87.50 mm
3.44 in
Exposed Unknown
Unknown

MAX DIA: 49.00 mm
1.93 in

OVERALL WT: 201.00 g
7.10 oz

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay function.

SINGAPORE A-2
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>Unknown</td>
</tr>
<tr>
<td>146.50 mm</td>
<td>Unknown</td>
</tr>
<tr>
<td>5.77 in</td>
<td>Unknown</td>
</tr>
<tr>
<td>Exposed:</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td>74.00 mm</td>
<td>271.00 g</td>
</tr>
<tr>
<td>2.91 in</td>
<td>9.56 oz</td>
</tr>
</tbody>
</table>

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Removable nose cap.
PD

LENGTH:                      MAX DIA:       61.00 mm
   Overall: 154.00 mm        6.06 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
<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
<th>Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length</td>
<td>89.80 mm</td>
<td>3.54 in</td>
</tr>
<tr>
<td>Exposed Length</td>
<td>61.50 mm</td>
<td>2.42 in</td>
</tr>
<tr>
<td>Max Diameter</td>
<td>49.00 mm</td>
<td>1.93 in</td>
</tr>
<tr>
<td>Overall Weight</td>
<td>200.00 g</td>
<td>7.05 oz</td>
</tr>
</tbody>
</table>

**Material:** Aluminum

**Ord Used With:** Mortar projectiles

**Comments:** Copy of U.S. fuze.
**PDSQ**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th>OVERALL WT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 150.60 mm (5.93 in)</td>
<td>61.00 mm (2.40 in)</td>
<td>521.00 g (18.38 oz)</td>
</tr>
<tr>
<td>Exposed: 94.50 mm (3.72 in)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum

**ORD USED WITH:** Mortar projectiles

**COMMENTS:** Copy of U.S. fuze.
### PDSD

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>30.00 mm</td>
</tr>
<tr>
<td></td>
<td>1.18 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>62.00 mm</td>
</tr>
<tr>
<td></td>
<td>2.44 in</td>
</tr>
</tbody>
</table>

**OVERALL WT:** 171.00 g
**6.03 oz**

**MATERIAL:** Steel

**ORD USED WITH:** 37-mm antiaircraft artillery projectiles

**COMMENTS:** Pyrotechnic self-destruct.

---

**A-37U**

**FORMER SOVIET UNION**
# PDSD

LENGTH:  
- Overall: 68.00 mm  
  2.68 in  
- Exposed: 39.00 mm  
  1.54 in

MAX DIA:  
- 20.00 mm  
  0.79 in

OVERALL WT: 49.05 g  
  1.73 oz

MATERIAL: Steel

ORD USED WITH: 30-mm projectiles


**FORMER SOVIET UNION**

A-670M
<table>
<thead>
<tr>
<th>Length</th>
<th>Max Dia</th>
<th>Overall WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>62.00 mm</td>
<td>50.69 g</td>
</tr>
<tr>
<td>Exposed</td>
<td>32.00 mm</td>
<td>20.00 mm</td>
</tr>
</tbody>
</table>

**Material:** Steel

**Ord Used With:** 30-mm projectiles

**Comments:** This fuze is shown without the booster.
PDSD

LENGTH: MAX DIA: OVERALL WT:
Overall: 83.00 mm 30.00 mm 168.00 g
3.27 in 1.18 in 5.93 oz
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
**PD**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 196.00 mm</td>
<td>63.00 mm</td>
<td>7.72 in</td>
</tr>
<tr>
<td>Exposed: 141.00 mm</td>
<td></td>
<td>5.55 in</td>
</tr>
</tbody>
</table>

**OVERALL WT:** 935.00 g

**OVERALL WT:** 32.99 oz

**MATERIAL:** Aluminum and bakelite

**ORD USED WITH:** Rocket

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

**DKZ-B**

**FORMER SOVIET UNION**
PD

LENGTH:  
Overall: 131.00 mm  
Exposed: 77.00 mm

MAX DIA: 40.00 mm

OVERALL WT: 196.00 g

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

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

FORMER SOVIET UNION
GO-2
**LENGTH:**
- Overall: 98.00 mm (3.86 in)
- Exposed: 52.00 mm (2.05 in)

**MAX DIA:**
- 40.00 mm (1.57 in)

**OVERALL WT:**
- 430.92 g (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.
PD

LENGTH:  
Overall: 107.00 mm  4.21 in  
Exposed: 62.00 mm  2.44 in

MAX DIA: 40.00 mm  1.52 in

OVERALL WT: 430.92 g  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
PD

LENGTH:  
- Overall: 98.00 mm (3.86 in)
- Exposed: 43.00 mm (1.69 in)

MAX DIA: 40.00 mm (1.57 in)

OVERALL WT: 349.27 g (12.32 oz)

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: Improved version of the KTM-1 fuze.

KTM-1-U  
FORMER SOVIET UNION

195
PD

LENGTH:
Overall: 97.00 mm 3.82 in
Exposed 40.00 mm 1.57 in

MAX DIA: 40.00 mm 1.57 in

OVERALL WT: 278.00g 9.81oz

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This is used with smoke projectiles.

FORMER SOVIET UNION KTM-2
LENGTH:  Overall: 94.00 mm  3.70 in
        Exposed: 40.00 mm  1.57 in
MAX DIA:  MAX DIA: 40.00 mm  1.57 in
OVERALL WT: OVERALL WT: 354.00 g  12.49 oz
MATERIAL: Steel
ORD USED WITH: Artillery projectiles
COMMENTS: The MG-57 fuze without a self-destruct feature.

PD

MG-N
FORMER SOVIET UNION
PDSD

LENGTH:
Overall: 83.00 mm  3.27 in
Exposed 45.00 mm  1.77 in

MAX DIA: 40.00 mm  1.57 in

OVERALL WT: 334.00 g  11.78 oz

MATERIAL: Steel

ORD USED WITH: 57-mm antiaircraft artillery projectiles


FORMER SOVIET UNION  MG-57
PDSD

LENGTH:  
Overall: 81.00 mm  
3.19 in  
Exposed: 43.00 mm  
1.69 in  

MAX DIA:  40.00 mm  
1.57 in  

OVERALL WT: 335.66 g  
11.84 oz  

MATERIAL: Steel

ORD USED WITH: 57-mm antiaircraft artillery projectiles


MGZ-57  FORMER SOVIET UNION
**PD**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th>OVERALL WT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>195.00 mm</td>
<td>64.00 mm</td>
</tr>
<tr>
<td>Exposed</td>
<td>141.00 mm</td>
<td>746.00 g</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum

**ORD USED WITH:** Rocket

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

**FORMER SOVIET UNION**

**MRV-U**
LENGTH:  
Overall: 68.00 mm  
Exposed: 36.00 mm  
MAX DIA: 39.00 mm
OVERALL WT: 299.38 g

MATERIAL: Steel and bakelite
ORD USED WITH: Mortar projectiles
COMMENTS: Instantaneous.
PD

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>66.00 mm</td>
</tr>
<tr>
<td></td>
<td>2.60 in</td>
</tr>
<tr>
<td>Exposed</td>
<td>35.00 mm</td>
</tr>
<tr>
<td></td>
<td>1.38 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>299.38 g</td>
</tr>
<tr>
<td></td>
<td>10.56 oz</td>
</tr>
</tbody>
</table>

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
PD

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

MATERIAL:  Steel and bakelite
ORD USED WITH:  Mortar projectiles
COMMENTS:  Instantaneous.

M-5 FORMER SOVIET UNION
PD

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

MATERIAL: Steel and bakelite  
ORD USED WITH: Mortar projectiles  
COMMENTS: Instantaneous.

FORMER SOVIET UNION  M-6
<table>
<thead>
<tr>
<th>Length</th>
<th>Max Dia</th>
<th>Overall</th>
<th>40.00 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>117.00 mm</td>
<td>4.61 in</td>
<td></td>
</tr>
<tr>
<td>Exposed</td>
<td>71.00 mm</td>
<td>2.80 in</td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL:** Steel  
**ORD USED WITH:** Mortar projectiles  
**COMMENTS:** This fuze is identical to the Former Soviet V-22 fuze. Superquick or delay settings.
PD

LENGTH: MAX DIA: 40.00 mm
Overall: 100.00 mm 1.57 in
Exposed 54.00 mm OVERALL WT: 450.00 g
3.94 in 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.
PD

LENGTH:
Overall: 100.00 mm
3.94 in
Exposed: 54.00 mm
2.13 in

MAX DIA: 40.00 mm
1.57 in

OVERALL WT: 454.00 g
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:  
Overall: 100.00 mm  
3.94 in  
Exposed 54.00 mm  
2.13 in  
MAX DIA: 40.00 mm  
1.57 in  
OVERALL WT: 425.00 g  
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
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 100.00 mm</td>
<td>40.00 mm</td>
</tr>
<tr>
<td>Exposed 54.00 mm</td>
<td>1.57 in</td>
</tr>
<tr>
<td>Overall: 3.94 in</td>
<td>OVERALL WT: 454.00 g</td>
</tr>
<tr>
<td>Exposed 2.13 in</td>
<td>16.01 oz</td>
</tr>
</tbody>
</table>

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.
PDSD

LENGTH:

Overall: 51.00 mm
2.00 in
Exposed 27.00 mm
1.06 in

MAX DIA: 30.00 mm
1.18 in

OVERALL WT: 48.16 g
1.70 oz

MATERIAL: Aluminum and steel

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

COMMENTS: Graze sensitive.

FORMER SOVIET UNION

VMG-M
<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 157.00 mm</td>
<td>40.00 mm</td>
</tr>
<tr>
<td>Exposed: 84.00 mm</td>
<td>40.00 mm</td>
</tr>
<tr>
<td>Overall: 6.18 in</td>
<td>1.57 in</td>
</tr>
<tr>
<td>Exposed: 3.31 in</td>
<td>1.18 in</td>
</tr>
</tbody>
</table>

OVERALL WT: 260.00 g
9.17 oz

MATERIAL: Aluminum and bakelite

ORD USED WITH: 57-mm aircraft rocket

COMMENTS: Instantaneous.

V-5M1 FORMER SOVIET UNION
PD

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

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: Identical to the Former Soviet M-12 fuze. Superquick or delay settings.
LENGTH: Overall: 111.00 mm 4.37 in
Exposed: 66.00 mm 2.60 in
MAX DIA: 40.00 mm 1.57 in
OVERALL WT: 618.00 g 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:              OVERALL WT:
  Overall:  104.00 mm             40.00 mm             439.99 g
            4.09 in                 1.57 in               15.52 oz
  Exposed  58.00 mm               OVERALL WT:
            2.28 in

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.
PD

LENGTH:
Overall: 102.30 mm 4.03 in
Exposed 79.70 mm 3.14 in

MAX DIA:
44.50 mm 1.75 in

OVERALL WT:
280.00 g 9.88 oz

MATERIAL: Unknown
ORD USED WITH: Rockets
COMMENTS: Graze sensitive.
PD

LENGTH:
Overall: 152.13 mm
5.99 in
Exposed 96.00 mm
3.78 in

MAX DIA: 62.50 mm
2.46 in

OVERALL WT: 565.00 g
19.93 oz

MATERIAL: Unknown

ORD USED WITH: Rockets

COMMENTS: Impact function available.
LENGTH:  
Overall: 92.00 mm  3.62 in  
Exposed: 65.00 mm  2.56 in

MAX DIA:  50.00 mm  1.97 in

OVERALL WT:  211.00 g  7.44 oz

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Instantaneous or delay setting.
PD

LENGTH:
Overall: 116.00 mm  4.57 in
Exposed  45.00 mm  1.77 in

MAX DIA: 32.00 mm  1.26 in

OVERALL WT: 201.00 g  7.09 oz

MATERIAL: Brass and lead

ORD USED WITH: Mortar projectiles

COMMENTS: None.
<table>
<thead>
<tr>
<th>PD</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH:</td>
</tr>
<tr>
<td>Overall:</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Exposed:</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>MATERIAL:</td>
</tr>
<tr>
<td>ORD USED WITH:</td>
</tr>
<tr>
<td>COMMENTS:</td>
</tr>
<tr>
<td>EE-W300</td>
</tr>
</tbody>
</table>
PD

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

MATERIAL: Brass and steel
ORD USED WITH: Mortar projectiles
COMMENTS: None.
PD

LENGTH:  
Overall: 152.00 mm  
5.98 in  
Exposed: 114.00 mm  
4.49 in

MAX DIA: 63.00 mm  
2.48 in

OVERALL WT: 1211.90 g  
42.75 oz

MATERIAL: Steel

ORD USED WITH: Artillery projectiles

COMMENTS: This fuze is used with Former Soviet style projectiles. Superquick or delay settings.
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.
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Measurement 1</th>
<th>Measurement 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH: Overall</td>
<td>134.40 mm</td>
<td>5.29 in</td>
</tr>
<tr>
<td></td>
<td>95.00 mm</td>
<td>3.74 in</td>
</tr>
<tr>
<td>MAX DIA:</td>
<td>48.5 mm</td>
<td>1.91 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>350.00 g</td>
<td>12.34 oz</td>
</tr>
</tbody>
</table>

MATERIAL: Unknown

ORD USED WITH: Rockets

COMMENTS: Impact function available.
PDSQ

LENGTH: 
Overall: 95.00 mm 3.74 in
Exposed: 66.50 mm 2.61 in

MAX DIA: 49.00 mm 1.93 in
OVERALL WT: 220.00 g 7.76 oz

MATERIAL: Unknown
ORD USED WITH: Mortar projectiles
COMMENTS: Visual armed/safe indicator.
LENGTH: Overall 95.00 mm 3.74 in Exposed 66.50 mm 2.62 in

MAX DIA: 49.00 mm 1.93 in

OVERALL WT: 235.00 g 8.29 oz

MATERIAL: Unknown

ORD USED WITH: Mortar projectiles

COMMENTS: Superquick or delay settings.

PDB 333 SPAIN

225
PD

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

MATERIAL: Unknown
ORD USED WITH: Mortar projectiles
COMMENTS: Several modifications exist.
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 70.00 mm</td>
<td>45.00 mm</td>
</tr>
<tr>
<td>Exposed: 33.00 mm</td>
<td>OVERALL WT: 438.00 g</td>
</tr>
<tr>
<td></td>
<td>1.30 in 1.77 in</td>
</tr>
<tr>
<td></td>
<td>15.45 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Brass

**ORD USED WITH:** Reconnaissance vehicle gun projectile

**COMMENTS:** None.

L17A3

UNITED KINGDOM
## PD

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>70.00 mm</td>
</tr>
<tr>
<td></td>
<td>2.76 in</td>
</tr>
<tr>
<td>Exposed</td>
<td>33.00 mm</td>
</tr>
<tr>
<td></td>
<td>1.30 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>439.00 g</td>
</tr>
<tr>
<td></td>
<td>15.49 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Brass

**ORD USED WITH:** Reconnaissance vehicle gun projectile

**COMMENTS:** None.

---

**UNITED KINGDOM**

**L17A6**
PD

LENGTH:
Overall: 151.00 mm
Exposed: 96.00 mm

MAX DIA:
61.00 mm
OVERALL WT:
985.00 g

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
Exposed 99.00 mm
Overall: 160.00 mm
Exposed 99.00 mm

MATERIAL: Aluminum

ORD USED WITH: Mortar projectiles

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

UNITED KINGDOM L35A1
<table>
<thead>
<tr>
<th>PD</th>
</tr>
</thead>
</table>

**LENGTH:**
- Overall: 151.00 mm (5.94 in)
- Exposed: 100.00 mm (3.94 in)

**MAX DIA:** 61.00 mm (2.40 in)

**OVERALL WT:** 1000.40 g (35.29 oz)

**MATERIAL:** Steel

**ORD USED WITH:** Artillery projectiles

**COMMENTS:** Superquick or delay settings.

---

**L106A2**

**UNITED KINGDOM**

231
<table>
<thead>
<tr>
<th>PD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH:</td>
<td>MAX DIA:</td>
</tr>
<tr>
<td>Overall:</td>
<td>Overall WT:</td>
</tr>
<tr>
<td>Exposed</td>
<td></td>
</tr>
<tr>
<td>86.00 mm</td>
<td>35.00 mm</td>
</tr>
<tr>
<td>3.38 in</td>
<td>1.38 in</td>
</tr>
<tr>
<td>34.00 mm</td>
<td>349.00 g</td>
</tr>
<tr>
<td>1.34 in</td>
<td>12.31 oz</td>
</tr>
</tbody>
</table>

MATERIAL: Steel

ORD USED WITH: Mortar projectiles

COMMENTS: None.

UNITED KINGDOM 162 MK10
LENGTH:  
Overall: 126.00 mm  
Exposed: 87.00 mm  
MAX DIA: 60.00 mm  
OVERALL WT: 1171.00 g

MATERIAL: Brass
ORD USED WITH: Artillery projectiles

COMMENTS: None.

117 MK 17/7  UNITED KINGDOM
PD

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

MATERIAL: Brass
ORD USED WITH: Artillery projectiles
COMMENTS: None.

UNITED KINGDOM 117 MK 20
LENGTH:  
Overall: 106.00 mm  
Exposed: 61.00 mm 
MAX DIA: 40.00 mm 
OVERALL WT: 464.30 g 
OVERALL WT: 16.38 oz 

MATERIAL:  Steel 
ORD USED WITH:  Artillery projectiles 

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

LENGTH: MAX DIA: 40.00 mm
Overall: 106.00 mm 1.57 in
Exposed 61.00 mm 2.40 in

MAX DIA: 40.00 mm
OVERALL WT: 417.30 g
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

236
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 102.00 mm</td>
<td>40.00 mm</td>
</tr>
<tr>
<td>4.02 in</td>
<td>1.57 in</td>
</tr>
<tr>
<td>Exposed: 57.00 mm</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td>2.24 in</td>
<td>433.00 g</td>
</tr>
<tr>
<td></td>
<td>15.27 oz</td>
</tr>
</tbody>
</table>

**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
Exposed 95.00 mm OVERALL WT: 946.00 g
5.91 in 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.
LENGTH:  
Overall: 67.00 mm 2.64 in  
Exposed: 32.00 mm 1.26 in

MAX DIA: 38.00 mm 1.50 in

OVERALL WT: 226.00 g 7.97 oz

MATERIAL: Steel

ORD USED WITH: Rocket

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

LENGTH:                        MAX DIA:  
Overall:  150.00 mm           61.00 mm  
           5.91 in                2.40 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.
PD

LENGTH:  
Overall: 78.00 mm 3.07 in  
Exposed: 60.00 mm 2.36 in

MAX DIA: 31.00 mm 1.22 in
OVERALL WT: 187.00 g 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.
PD

LENGTH:
Overall: 90.00 mm
3.54 in
Exposed 62.00 mm
2.44 in

MAX DIA: 40.00 mm
1.57 in

OVERALL WT: 163.20 g
5.76 oz

MATERIAL: Aluminum
ORD USED WITH: Mortar projectiles
COMMENTS: None.

FORFormer Yugoslavia

M68
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LENGTH:</strong></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td>87.00 mm</td>
</tr>
<tr>
<td>Exposed</td>
<td>61.00 mm</td>
</tr>
<tr>
<td><strong>MAX DIA:</strong></td>
<td>46.00 mm</td>
</tr>
<tr>
<td><strong>OVERALL WT:</strong></td>
<td>173.00 g</td>
</tr>
<tr>
<td><strong>MATERIL:</strong></td>
<td>Aluminum</td>
</tr>
<tr>
<td><strong>ORD USED WITH:</strong></td>
<td>Mortar projectiles</td>
</tr>
<tr>
<td><strong>COMMENTS:</strong></td>
<td>None.</td>
</tr>
</tbody>
</table>

**M68 P1**

**FORMER YUGOSLAVIA**
**PD**

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall LENGTH:</td>
<td>80.00 mm 3.15 in</td>
</tr>
<tr>
<td>Exposed LENGTH:</td>
<td>63.00 mm 2.48 in</td>
</tr>
<tr>
<td>MAX DIA:</td>
<td>46.00 mm 1.18 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>158.70 g 5.60 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum

**ORD USED WITH:** Mortar projectiles

**COMMENTS:** This fuze is used with white phosphorous projectiles.

[Images of the fuze]

**FORMER YUGOSLAVIA**

**M70 P1**
PD

LENGTH:  
Overall: 105.00 mm 4.13 in  
Exposed: 60.00 mm 2.36 in

MAX DIA:  40.00 mm 1.57 in

OVERALL WT: 460.10 g 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

245
PD

LENGTH:  
Overall: 102.00 mm  4.02 in  
Exposed: 57.00 mm  2.24 in

MAX DIA: 40.00 mm  1.57 in

OVERALL WT: 430.90 g  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.
**PD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 86.00 mm</td>
<td>61.00 mm</td>
</tr>
<tr>
<td>3.39 in</td>
<td>2.40 in</td>
</tr>
<tr>
<td>Exposed: 73.00 mm</td>
<td>OVERALL WT: 293.00 g</td>
</tr>
<tr>
<td>2.87 in</td>
<td>10.33 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum

**ORD USED WITH:** Mortar projectiles

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

**M-111B1**

**COUNTRY UNKNOWN**
PD

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length</td>
<td>77.00 mm</td>
<td>3.03 in</td>
</tr>
<tr>
<td>Exposed Length</td>
<td>60.00 mm</td>
<td>2.36 in</td>
</tr>
<tr>
<td>MAX DIA</td>
<td>40.00 mm</td>
<td>1.57 in</td>
</tr>
<tr>
<td>OVERALL WT</td>
<td>218.00 g</td>
<td>7.69 oz</td>
</tr>
</tbody>
</table>

**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
Point Initiating, Base Detonating (PIBD)

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NORTH KOREA
TYPE 2 .......................................... 257
PIBD

LENGTH:
Overall: 97.00 mm
3.82 in
Exposed: 76.00 mm
2.99 in

MAX DIA: 40.00 mm
1.57 in

OVERALL WT: 219.00 g
7.72 oz

MATERIAL: Aluminum

ORD USED WITH: Recoilless rifle projectiles

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

<table>
<thead>
<tr>
<th>Length</th>
<th>Max Dia</th>
<th>Overall Length</th>
<th>Exposed Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 97.00 mm</td>
<td>41.00 mm</td>
<td>3.82 in</td>
<td>2.91 in</td>
</tr>
<tr>
<td>Exposed: 74.00 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Material:** Aluminum

**ORD Used With:** Recoilless rifle projectiles

**Comments:** This fuze is a copy of the Former Soviet GK-1.
<table>
<thead>
<tr>
<th>PIBD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LENGTH:</td>
<td>MAX DIA:</td>
</tr>
<tr>
<td>Overall: 96.60 mm (3.80 in)</td>
<td>40.00 mm (1.57 in)</td>
</tr>
<tr>
<td>Exposed 42.80 mm (1.69 in)</td>
<td>OVERALL WT: 404.00 mm (14.25 oz)</td>
</tr>
</tbody>
</table>

MATERIAL: Aluminum and steel

ORD USED WITH: Recoilless rifle projectiles

COMMENTS: None.

TYPE 3 CHINA
PIBD

LENGTH:
Overall: 97.00 mm 3.82 in
Exposed 67.00 mm 2.64 in

MAX DIA: 30.00 mm 1.18 in
OVERALL WT: 101.00 g 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
PIBD

LENGTH:  
Overall: 55.00 mm  2.17 in
Exposed: 40.00 mm 1.57 in

MAX DIA:  30.00 mm  1.18 in

OVERALL WT: 130.00 g 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
Exposed 0.00 mm
0.00 in

MAX DIA: 37.00 mm
OVERALL WT: 96.00 g

MAX DIA: 37.00 mm
OVERALL WT: 96.00 g

MATERIAL: Aluminum and bakelite

ORD USED WITH: Rocket

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

GERMANY

VP-7M
**PIBD**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 99.00 mm 3.90 in</td>
<td>40.00 mm 1.57 in</td>
</tr>
<tr>
<td>Exposed 73.00 mm 2.87 in</td>
<td>OVERALL WT: 220.00 g 7.76 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum

**ORD USED WITH:** Recoilless gun projectiles

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

![Image of fuze](image1.png)

**TYPE 2**

**NORTH KOREA**

257
### PIBD

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th>MATERIAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 97.00 mm</td>
<td>40.00 mm</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Exposed: 74.00 mm</td>
<td>3.82 in</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>135.00 g</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.76 oz</td>
<td></td>
</tr>
</tbody>
</table>

ORD USED WITH: Recoilless gun projectiles

COMMENTS: Instantaneous. Graze sensitive.

FORMER SOVIET UNION

GK-1
PIBD

LENGTH:  
Overall: 97.00 mm  
3.82 in  
Exposed: 76.00 mm  
2.99 in

MAX DIA: 40.00 mm  
1.57 in

OVERALL WT: 219.00 g  
7.72 oz

MATERIAL: Aluminum

ORD USED WITH: Recoilless gun projectiles

COMMENTS: Instantaneous. Graze sensitive.
PIBD

LENGTH:
Overall: 122.00 mm
Exposed: 97.00 mm
MAX DIA: 41.00 mm
OVERALL WT: 205.00 g

4.80 in
3.82 in
1.61 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
PIBD

LENGTH:  
Overall: 77.00 mm 3.03 in  
Exposed: 57.00 mm 2.24 in

MAX DIA: 40.00 mm 1.57 in

OVERALL WT: 161.00 g 5.68 oz

MATERIAL: Aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Graze sensitive. Instantaneous.
PIBD

LENGTH:  
  Overall: 98.00 mm  3.86 in  
  Exposed: 56.00 mm  2.20 in

MAX DIA: 40.00 mm  1.57 in

OVERALL WT: 190.00 g  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
<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 125.00 mm 4.92 in</td>
<td>40.00 mm 1.57 in</td>
</tr>
<tr>
<td>Exposed: 110.00 mm 4.33 in</td>
<td>OVERALL WT: 163.00 g 5.75 oz</td>
</tr>
</tbody>
</table>

MATERIAL: Aluminum and bakelite
ORD USED WITH: 57-mm aircraft rockets
COMMENTS: Instantaneous.
PIBD

LENGTH:  
Overall: 74.00 mm  2.91 in  
Exposed 0.00 mm  0.00 in

MAX DIA: 37.00 mm  1.46 in

OVERALL WT: 96.00 g  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
PIBD

LENGTH:
Overall: 75.00 mm 2.95 in
Exposed: 0.00 mm 0.00 in

MAX DIA:
OVERALL WT:

MATERIAL: Aluminum and plastic
ORD USED WITH: Aircraft rockets

COMMENTS: This fuze uses a piezoelectric nose element.

9-K1-608
FORMER SOVIET UNION
PIBD

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 98.00 mm</td>
<td>40.00 mm</td>
</tr>
<tr>
<td>3.86 in</td>
<td>1.57 in</td>
</tr>
<tr>
<td>Exposed: 56.00 mm</td>
<td>OVERALL WT: 154.00 g</td>
</tr>
<tr>
<td>2.20 in</td>
<td>5.43 oz</td>
</tr>
</tbody>
</table>

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.
Proximity (PROX)

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<thead>
<tr>
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<tbody>
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<td>EF-792</td>
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<td>EF-796</td>
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<td>303</td>
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<td>MIRA EF-723</td>
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<td>301</td>
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<tr>
<td><strong>SOUTH AFRICA</strong></td>
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<tr>
<td>BM21</td>
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<td>BM36</td>
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<td>M8513A1</td>
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<td>M8516</td>
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<td>M8517</td>
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<td>M85R13</td>
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<td>M8953</td>
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<td>M9327A1</td>
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<td>MO120</td>
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<td>RO 107</td>
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<td>315</td>
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<tr>
<td><strong>SOUTH KOREA</strong></td>
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<tr>
<td>K700</td>
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<td><strong>SWEDEN</strong></td>
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<tr>
<td>P-F 40-2</td>
<td></td>
<td>319</td>
</tr>
<tr>
<td>PROX</td>
<td></td>
<td></td>
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<tr>
<td>---</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LENGTH:</td>
<td>MAX DIA:</td>
<td></td>
</tr>
<tr>
<td>Overall: Unknown</td>
<td>64.00 mm</td>
<td></td>
</tr>
<tr>
<td>Unknown</td>
<td>2.52 in</td>
<td></td>
</tr>
<tr>
<td>Exposed Unknown</td>
<td>OVERALL WT: Unknown</td>
<td></td>
</tr>
<tr>
<td>Unknown Unknown</td>
<td>Unknown</td>
<td></td>
</tr>
</tbody>
</table>

MATERIAL: Plastic and aluminum

ORD USED WITH: 122-mm rockets

COMMENTS: Believed to have an impact back-up.
PROX

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

MATERIAL: Plastic and aluminum

ORD USED WITH: Artillery and mortar projectiles

COMMENTS: Believed to have an impact back-up.
PROX

LENGTH: MAX DIA:
Overall: 157.00 mm 40.00 mm
6.18 in 1.57 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.
PROX

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>128.2 mm</td>
<td>40 mm</td>
</tr>
<tr>
<td></td>
<td>5.05 in</td>
<td>1.57 in</td>
</tr>
<tr>
<td>Exposed</td>
<td>81.4 mm</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td></td>
<td>3.20 in</td>
<td>320.00 g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11.29 oz</td>
</tr>
</tbody>
</table>

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery and mortar projectiles

COMMENTS: Impact backup.
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>195.00 mm</td>
</tr>
<tr>
<td></td>
<td>7.68 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>100.00 mm</td>
</tr>
<tr>
<td></td>
<td>3.94 in</td>
</tr>
<tr>
<td>OVERALL WT:</td>
<td>1345.60 g</td>
</tr>
<tr>
<td></td>
<td>47.46 oz</td>
</tr>
</tbody>
</table>

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.
PROX

LENGTH:                MAX DIA:  64.00 mm
    Overall:  193.50 mm           2.52 in
              7.62 in
    Exposed  89.50 mm    OVERALL WT: 1346.00 g
              3.52 in            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: Overall: 204.40 mm 8.05 in
Exposed 91.00 mm 3.58 in
MAX DIA: 64.00 mm 2.52 in
OVERALL WT: 1216.00 g 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.
**PROX**

LENGTH:  
Overall: 174.00 mm 6.85 in  
Exposed 127.00 mm 5.00 in

MAX DIA: 40.00 mm 1.57 in  
OVERALL WT: 590.00 g 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
PROX

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

MAX DIA: 70.00 mm 2.76 in

OVERALL WT: 1600.00 g 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
### PROX

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 218.44 mm</td>
<td>61.00 mm</td>
</tr>
<tr>
<td>Exposed: 96.00 mm</td>
<td>2.40 in</td>
</tr>
<tr>
<td></td>
<td>OVERALL WT: 588.60 g</td>
</tr>
<tr>
<td></td>
<td>3.78 in</td>
</tr>
<tr>
<td></td>
<td>20.76 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum and plastic

**ORD USED WITH:** Mortar projectiles

**COMMENTS:** This fuze has an impact back-up.
PROX

LENGTH:
Overall: 223.20 mm
Exposed: 124.7 mm

MAX DIA:
70.00 mm

OVERALL WT:
1600.00 g

MAX DIA:
70.00 mm

OVERALL WT:
1600.00 g

MATERIAL: Aluminum and plastic

ORD USED WITH: 100-mm naval artillery projectiles

COMMENTS: Impact back-up.

FRANCE

FU-ALTM-100 F84
PROX

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 151.00 mm</td>
<td>61.00 mm</td>
</tr>
<tr>
<td>Exposed 96.00 mm</td>
<td>2.40 in</td>
</tr>
</tbody>
</table>

OVERALL WT: 640.00 g

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Impact superquick option.

FU-RA-DE-F5

FRANCE
**PROX**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 221.80 mm</td>
<td>61.00 mm</td>
</tr>
<tr>
<td>Exposed: 98.35 mm</td>
<td>51.00 mm</td>
</tr>
</tbody>
</table>

**MAX DIA:** 61.00 mm  
**OVERALL WT:** 1105.00 g

**MATERIAL:** Aluminum and plastic

**ORD USED WITH:** Artillery projectiles

**COMMENTS:** None.

---

**FRANCE**

**FU RALEC F2**
LENGTH:
Overall: 151.00 mm 5.94 in
Exposed: 96.00 mm 3.78 in

MAX DIA: 61.00 mm 2.40 in
OVERALL WT: 626.00 g 22.08 oz

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

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

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

MAX DIA: 61.00 mm

MATERIAL: Steel and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: None.

FRANCE

FU RC 58/62
PROX

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

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up.
PROX

LENGTH:  
Overall: 150.88 mm  
Exposed: 99.20 mm  
MAX DIA: 61.00 mm  
OVERALL WT: 755.30 g

MATERIAL: Steel and plastic

ORD USED WITH: Mortar projectiles

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

FRANCE  PF120-PR14
PROX

LENGTH:  
Overall: 118.00 mm  
Exposed: 72.00 mm  
MAX DIA: 40.00 mm

OVERALL WT: 291.80 g

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.
# PROX

<table>
<thead>
<tr>
<th>Length</th>
<th>Max Dia:</th>
<th>Overall: 118.00 mm</th>
<th>Exposed: 72.00 mm</th>
<th>MAX DIA: 40.00 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td>4.65 in</td>
<td>2.83 in</td>
<td>1.57 in</td>
</tr>
<tr>
<td>Exposed</td>
<td></td>
<td></td>
<td></td>
<td>OVERALL WT: 290.20 g</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10.24 oz</td>
</tr>
</tbody>
</table>

**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.
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 70.20 mm</td>
<td>25.70 mm</td>
</tr>
<tr>
<td>Exposed: 42.00 mm</td>
<td>25.70 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATERIAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum and plastic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ORD USED WITH:</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-mm L/70 projectiles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMMENTS:</th>
</tr>
</thead>
</table>

**PROX**

**T40 ER AH**

FRANCE
**PROX**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th>OVERALL WT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 70.28 mm</td>
<td>25.70 mm</td>
<td>540.00 g</td>
</tr>
<tr>
<td>Exposed 42.08 mm</td>
<td>1.01 in</td>
<td>19.05 oz</td>
</tr>
</tbody>
</table>

**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:
Overall: 202.50 mm 7.97 in
Exposed: 95.00 mm 3.74 in

MAX DIA: 62.00 mm 2.44 in
OVERALL WT: 900.00 g 31.75 oz

MATERIAL: Aluminum and plastic

ORD USED WITH: 76-mm projectiles

PROX

LENGTH: MAX DIA: 62.00 mm
Overall: 202.50 mm 2.44 in
Exposed 95.00 mm OVERALL WT: 900.00 g
7.97 in 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.
PROX

LENGTH:  
Overall: 228.00 mm  
Exposed: 147.00 mm  
MAX DIA: 62.00 mm
  8.98 in  
  5.79 in  
OVERALL WT: 656.00 g  
  23.14 oz

MATERIAL: Aluminum and plastic
ORD USED WITH: Mortar projectiles
COMMENTS: None.
**PROX**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th>OVERALL WT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 91.00 mm</td>
<td>49.00 mm</td>
<td>Unknown</td>
</tr>
<tr>
<td>Exposed: 63.80 mm</td>
<td>1.93 in</td>
<td></td>
</tr>
</tbody>
</table>

**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.
**PROX**

LENGTH:  
- Overall: 91.00 mm (3.58 in)
- Exposed: 63.70 mm (2.51 in)

MAX DIA: Unknown

OVERALL WT: 210.00 g (7.4 oz)

MATERIAL: Aluminum and plastic

ORD USED WITH: Mortar projectiles

COMMENTS: Selectable impact function.

---

**PPD 323**  
NORWAY
PROX

LENGTH: MAX DIA: Overall: 91.00 mm Unknown
Exposed 67.50 mm OVERALL WT: 210.00 g
3.58 in 2.66 in 7.41 oz

MATERIAL: Aluminum and plastic
ORD USED WITH: Mortar projectiles
COMMENTs: Selectable impact function.

NORWAY PPD 324
<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
<th>OVERALL WT:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>151.60 mm</td>
<td>485.00 g</td>
</tr>
<tr>
<td></td>
<td>5.97 in</td>
<td>17.11 oz</td>
</tr>
<tr>
<td>Exposed:</td>
<td>95.50 mm</td>
<td>485.00 g</td>
</tr>
<tr>
<td></td>
<td>3.76 in</td>
<td>17.11 oz</td>
</tr>
</tbody>
</table>

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Selectable impact function.
PROX

LENGTH: 
Overall: 101.30 mm  
3.99 in  
Exposed: 73.20 mm  
2.88 in  

MAX DIA: 46.50 mm  
1.83 in  

OVERALL WT: 240 g  
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.
LENGTH:
Overall: 125.40 mm
Exposed: 70.00 mm

MAX DIA:
59.60 mm

OVERALL WT:
345 g

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.
### PROX

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th></th>
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<tr>
<td>Overall:</td>
<td>152.00 mm</td>
<td>61.00 mm</td>
</tr>
<tr>
<td></td>
<td>5.98 in</td>
<td>2.40 in</td>
</tr>
<tr>
<td>Exposed:</td>
<td>96.00 mm</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td></td>
<td>3.78 in</td>
<td>378.00 g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13.33 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum and plastic  

**ORD USED WITH:** Artillery projectiles  

**COMMENTS:** This fuze has an impact feature.
**PROX**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 151.60 mm</td>
<td>51.20 mm</td>
</tr>
<tr>
<td>Exposed 95.50 mm</td>
<td>2.02 in</td>
</tr>
</tbody>
</table>

**OVERALL WT:** 500 g  
**17.64 oz**

**MATERIAL:** Aluminum and steel  
**ORD USED WITH:** Artillery projectiles  
**COMMENTS:** Impact back-up.

---

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

LENGTH: 
Overall: 107.00 mm  
Exposed: 79.00 mm  
MAX DIA: 49.00 mm  
OVERALL WT: 265.00 g

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.
PROX

LENGTH:
Overall: 128.20 mm
Exposed: 81.70 mm

MAX DIA:
43.00 mm

OVERALL WT:
510.00 g

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

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

LENGTH:  
Overall: 151.60 mm  
Exposed: 95.50 mm  

MAX DIA:  61.00 mm  
OVERALL WT:  520.00 g  

5.97 in  
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.
**PROX**

<table>
<thead>
<tr>
<th>LENGTH:</th>
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<tbody>
<tr>
<td>Overall: 159.00 mm</td>
<td>63.50 mm</td>
</tr>
<tr>
<td>Exposed: 107.00 mm</td>
<td>6.26 in</td>
</tr>
<tr>
<td></td>
<td>2.50 mm</td>
</tr>
<tr>
<td></td>
<td>4.21 in</td>
</tr>
</tbody>
</table>

**OVERALL WT:** 750 g

**OVERALL WT:** 26.46 oz

**MATERIAL:** Plastic and aluminum

**ORD USED WITH:** Rockets

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

LENGTH:  
Overall: 150.00 mm  5.90 in  
Exposed: 107.00 mm  4.21 in

MAX DIA: 63.50 mm  2.50 in

OVERALL WT: Unknown

MATERIAL: Plastic and aluminum

ORD USED WITH: Rockets

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

SOUTH AFRICA  BM36
LENGTH:Overall: 149.10 mm 5.87 in
Exposed: 94.45 mm 3.72 in
MAX DIA: 61.25 mm 2.41 in
OVERALL WT: 1110 g 39.15 oz

MATERIAL: Plastic and aluminum
ORD USED WITH: Artillery projectiles
COMMENTS: Impact back-up.

PROX

M85C13

SOUTH AFRICA
**PROX**

<table>
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<th>MAX DIA:</th>
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<td>Overall:</td>
<td>149.10 mm Entry</td>
</tr>
<tr>
<td>Exposed:</td>
<td>105.30 mm Entry</td>
</tr>
</tbody>
</table>

OVERALL WT: 1110 g Entry

MATERIAL: Plastic and aluminum

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up.

SOUTH AFRICA M85R13
PROX

LENGTH:
Overall: 123.00 mm
Exposed: 76.00 mm

MAX DIA: 40.00 mm

OVERALL WT: 275.00 g

MATERIAL: Aluminum, steel, and plastic
ORD USED WITH: Mortar projectiles

COMMENTS: This fuze has an impact feature.
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
| PROX |
|---|---|---|
| LENGTH: | MAX DIA: |
| Overall: 101.50 mm | 40.00 mm |
| Exposed 75.20 mm | 1.57 in |
| OVERALL WT: 275.00 g | 2.96 in |
| 9.7 oz |

MATERIAL: Plastic and aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Similar to the M8517.
PROX

LENGTH:  
Overall: 101.5 mm  
Exposed: 75.20 mm  
MAX DIA: 45.00 mm  
OVERALL WT: 280 g

MATERIAL: Plastic and aluminum
ORD USED WITH: Mortar projectiles
COMMENTS: Similar to the M8516.

SOUTH AFRICA  M8517
**PROX**

<table>
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<th>MAX DIA:</th>
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<tbody>
<tr>
<td>Overall: 204.57 mm</td>
<td>62.00 mm</td>
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<tr>
<td>Exposed: 95.40 mm</td>
<td>2.44 in</td>
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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Plastic and aluminum</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ORD USED WITH:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artillery projectiles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMMENTS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>For naval use, Back-up impact function.</td>
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</tbody>
</table>

---

**M8953 SOUTH AFRICA**

313
PROX

LENGTH:  
Overall: 103.46 mm  4.07 in
Exposed 76.96 mm  3.03 in

MAX DIA:  48.10 mm  1.89 in
OVERALL WT:  360.00 g  12.70 oz

MATERIAL: Plastic and aluminum

ORD USED WITH: Mortar projectiles

COMMENTS: Replaces the M8516 and M8517 fuzes.
**PROX**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 123.45 mm</td>
<td>40.20 mm</td>
</tr>
<tr>
<td>Exposed: 77.11 mm</td>
<td>40.20 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OVERALL WT:</th>
<th>MATERIAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>275 g</td>
<td>Aluminum and plastic</td>
</tr>
</tbody>
</table>

ORD USED WITH: Rockets

COMMENTS: Impact selection available.

![PROX Image]

**RO 107**

SOUTH AFRICA
**PROX**

<table>
<thead>
<tr>
<th>LENGTH:</th>
<th>MAX DIA:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall: 151.55 mm</td>
<td>62.00 mm</td>
<td>5.97 in</td>
</tr>
<tr>
<td>Exposed 95.50 mm</td>
<td></td>
<td>3.76 in</td>
</tr>
</tbody>
</table>

OVERALL WT: 789 g
OVERALL WT: 27.83 oz

MATERIAL: Plastic and unknown metal

ORD USED WITH: Artillery projectiles

COMMENTS: Impact selectable option.

---

**SOUTH KOREA K700**
LENGTH: Overall: 152.13 mm 5.99 in
Exposed: 96.00 mm 3.80 in

MAX DIA: 61.20 mm 2.41 in

OVERALL WT: Unknown

MATERIAL: Aluminum and plastic

ORD USED WITH: Artillery projectiles

COMMENTS: Impact back-up feature.
PROX

LENGTH: 
Overall: 146.86 mm 5.78 in
Exposed 96.52 mm 3.80 in

MAX DIA: 60.70 mm 2.39 in

OVERALL WT: Unknown

MATERIAL: Aluminum and plastic

ORD USED WITH: Rockets

COMMENTS: Impact back-up feature.

SPAIN

VTB 140 T
PROX

LENGTH:     MAX DIA:     35.70 mm
Overall: 94.45 mm 1.41 in
Exposed 83.50 mm OVERALL WT: 116.00 g
            3.29 in 4.09 oz

MATERIAL: Plastic and aluminum

ORD USED WITH: 40-mm Bofors L70 artillery projectile

COMMENTS: None.
**PROX**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>MAX DIA:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall:</td>
<td>133.00 mm</td>
<td>60.00 mm</td>
</tr>
<tr>
<td></td>
<td>2.99 in</td>
<td>2.36 in</td>
</tr>
<tr>
<td>Exposed</td>
<td>76.00 mm</td>
<td>OVERALL WT:</td>
</tr>
<tr>
<td></td>
<td>2.99 in</td>
<td>426.60 g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15.04 oz</td>
</tr>
</tbody>
</table>

**MATERIAL:** Aluminum and plastic

**ORD USED WITH:** Artillery projectiles

**COMMENTS:** This fuze has an impact back-up.

**FORMER YUGOSLAVIA**

**M79**

320
# Appendix
## Glossary of Terms

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>BD</td>
<td>base detonating</td>
</tr>
<tr>
<td>BDSD</td>
<td>base detonating, self-destruct</td>
</tr>
<tr>
<td>HEAT</td>
<td>high-explosive antitank</td>
</tr>
<tr>
<td>MT</td>
<td>mechanical time</td>
</tr>
<tr>
<td>MTSQ</td>
<td>mechanical time and superquick</td>
</tr>
<tr>
<td>PD</td>
<td>point detonating</td>
</tr>
<tr>
<td>PDSD</td>
<td>point detonating, self-destruct</td>
</tr>
<tr>
<td>PIBD</td>
<td>point initiating, base detonating</td>
</tr>
<tr>
<td>PROX</td>
<td>proximity</td>
</tr>
<tr>
<td>PTTF</td>
<td>powder train time fuze</td>
</tr>
<tr>
<td>RAP</td>
<td>rocket-assisted projectile</td>
</tr>
<tr>
<td>TSQ</td>
<td>time and superquick</td>
</tr>
<tr>
<td>WP</td>
<td>white phosphorous</td>
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DIA/PS DIR FOR POLICY SUPPORT
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DIA/MCA-4 UNCLASSIFIED LIBRARY
DIA/SV-5A LIBRARY
DIA/PGI-2B
DIA/PAR-3 (GROUND)
DIA/PAR-3 (GEN PURPOSE FORCES)
DIA/PAR-3A (GROUND)
DIA/PAR-3A (NATL SEC TEAM)
DIA/PGI-2C
DIA/PAR-4
DIA/PAC-1
DIA/PAC-3 KOREA DIVISION
DIA/PAW-4 LATIN AMERICA DIV
DIA/PAR-2 SOUTHEASTERN EUROPE
DIA/PAW-2 PERSIAN GULF
DIA/PAC-2
DIA/J2M-2C EUROPE BRANCH
DIA/J2M-2A MID-EAST/AFRICA BR
DIA/J2M-2D AMERICAS BRANCH
DIA/PGX-4 REGIONAL FORCES DIV
DIA/PGX-4D
DIA/PGX-4C PACOM BRANCH
DIA/PGX-4A
DIA/PAC
DIA/PAW-1
HQ USAF/INEE (RAND-C)
HQ USAF/INEE (RAND-W)
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NPIC/RSD (LIBRARY)
CIA/OIR/IMD/ISB
STATE INR/PMW
STATE/PM
STATE EA + PAC AFF
NSA/E3234/HARD CY COLLECTIONS
NPIC/IAG/AAD/KB
NPIC/IAG/AAD/CB
NPIC/IAG/AAD/SSAB
NPIC/IAG/ED/RB
NPIC/IAG/ED/NISB
NPIC/IAG/MEAD/AIB
NPIC/IAG/MEAD/AB
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USA MATERIEL SYS ANAL ACT
I-CMISE 205TH MI BN
FOREIGN MATERIEL INTEL BN
500TH MIL INTEL BDE

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C317
C325
C341
C350
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E438
E500
F005
G009
H002
H299
H300
H301
H310
H350
H524

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297TH MI BN, 513TH MI BDE
1
297TH MI BN CMISE 18TH ABC
1
III CORPS CMISE
1
470TH MIL INTEL BRIGADE
1
445TH MID (STRAT)
1
454TH MID(S) NGIC
1
US ARMY ENGINEER CTR + SCH
1
USA INFANTRY CENTER
2
US MILITARY ACADEMY-WEST POINT
1
USA ORD MISSILE-MUNS CTR+SCH
1
US ARMY WAR COLLEGE
1
USA RESEARCH LAB, APG
20
USA NATICK RD+E CENTER
1
USA ARMAMENT RES DEV+ENGR CTR 1
USA RESEARCH LAB (ADELPHI)
1
US ARMY TECHNICAL DETACHMENT
1
USA RESEARCH LABORATORY (WSMR) 1
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1
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USA COMBAT AVIA TNG BDE
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USA NIGHT VISION+ELEC SEN DIR
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USA DUGWAY PROVING GROUND
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US ARMY ARMOR CENTER
1
CNA
1
NAVARMSCONTROLCOORD//IPO-05//
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CMC
1
NAVEODTECHDIV INDIAN HEAD MD
1
NMITC
2
MC INTELLIGENCE ACTIVITY
151
MCAGCC TEECG
1
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RESERVE MAGTF CE PAC
1
23RD MARINES
4
ONI DET NEWPORT RI
1
DNI/OP-092
1
AFSAA/SAMI
1
PHILLIPS LABORATORY
1
ASC/NAIC/POA
6
AFMC/INJ(G)
2
OO-ALC/TISFB
1
17 TRSS/DOULS
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17TRSS/DOUL
2
USTRANSCOM TCJ2-JS
1
US ARMY SPACE COMMAND (FWD)
1
HQ USEUCOM JOINT ANALYSIS CTR
3
UCIRF
3
ODSCINT USAREUR
1
7TH ARMY TNG CMD
2
USASETAF
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