

MIL-C-63092(AR)  
AMENDMENT 3  
1 November 1978  
SUPERSEDING  
AMENDMENT 2  
10 July 1978

MILITARY SPECIFICATION  
CARTRIDGE, 40MM, RED STAR, PARACHUTE, M662  
METAL PARTS  
AND  
LOADING, ASSEMBLING AND PACKING

This amendment forms a part of Military Specification MIL-C-63092(AR), dated 28 July 1976.

PAGE 4

Paragraph 3.4.2. - Delete "Illuminate" and substitute "Illuminant"

PAGE 5

Paragraph 3.4.5. - Delete "3.4.2"

Paragraph 3.4.7. - Delete "3.4.2"

\* Add the following paragraph:

"3.7 X-ray examination of ballistic samples. - Prior to forwarding the sample cartridges for ballistic testing, they shall be x-rayed for critical and major defects. A critical defect is defined as no delay column or no delay carrier."

PAGE 6 and 7

Paragraph 4.3.3.1

c. Delete "Burning time should be recorded for informational purposes (average)" and substitute "Burning time of functioned items shall be recorded for informational purposes."

FSC: 1310

MIL-C-63092(AR)  
AMENDMENT 3

d. Delete "(1)" in its entirety and substitute the following:  
"(1) Burning time of functioned items incorrect (See 3.4.2)."

Add the following: "(4) No illumination (See Table III)."

Paragraph 4.3.3.1

e. Delete "Burning time should be recorded for informationa pur-  
poses (average)" and substitute "Burning time of functioned items shall  
be recorded for informational purposes."

Add the following:

"g. Burning time of two (2) or more of the total sample at ambient  
phase is less than 22 seconds."

PAGE 8

Table I, Illuminant Assembly. - Delete "Candle Power" and substitute  
"Static test."

PAGE 10

Paragraph 4.4.1, h. - Delete "Ignition" and substitute "First fire."

PAGE 18

Paragraph 4.4.2.7. - Delete defect characteristic "Major 105" and substitute  
the following:

"Major

105, Static test

3.2

4.4.3.2, 4.4.3.3, 4.5.4"

PAGE 20

Delete paragraph "4.4.2.9" in its entirety.

PAGE 23

Paragraph 4.4.2.12. - Delete defect characteristic "Major 101" in its  
entirety and substitute the following:

MIL-C-63092(AR)  
AMENDMENT 3

"Major

101	Disassembly test of delay assembly	20	0.65%	3.2	4.5.5"
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PAGE 24

Paragraph 4.4.2.13. - Defect characteristic Major 102, delete "50 2.50%" and substitute "4 pr. hr. \*Under NOTES add "\*If any sample fails to comply with the drawing requirement, the hour's production represented by the sample shall be rejected."

PAGE 28

Paragraph 4.4.3.1. - Delete "Ignition composition" and substitute "First fire composition"

Last line. - Delete "non-forming" and substitute "non-conforming"

Paragraph 4.4.3.2. - Delete "Candle power of illuminant assembly" and substitute "Static test of illuminant assembly"

Paragraph 4.4.3.3. - Delete "Candle power of illuminant assembly regular production" and substitute "Static test of illuminant assembly, regular production"

PAGE 30

Paragraph 4.4.3.7.4. - Delete "c, d and e" in their entirety and substitute the following:

"c. A total of six (6) or more in the hot phase fail any of the following:

- (1) Parachute failure (see 3.4.3)
- (2) Item fails to function (see Table III)
- (3) No illumination (see Table III)

Burning time of functioned items shall be recorded for informational purposes.

MIL-C-63092(AR)  
AMENDMENT 3

d. A total of fifteen (15) or more in the ambient phase fail any of the following:

- (1) Parachute failure (see 3.4.3)
- (2) Item fails to function (see Table III)
- (3) No illumination (see Table III)
- (4) Burning time of functioned items incorrect (see 3.4.2)

e. A total of six (6) or more in the cold phase fail any of the following:

- (1) Parachute failure (see 3.4.3)
- (2) Item fails to function (see Table III)
- (3) No illumination (see Table III)

Burning time of functioned items shall be recorded for informational purposes."

Add the following:

"g. Burning time of two (2) or more of the total sample at ambient is less than 22 seconds."

PAGE 31

Paragraph 4.4.3.10.4. - Delete "c, d and e" in their entirety and substitute the following:

"c. A total of four (4) or more in the hot phase fail any of the following:

- (1) Parachute failure (see 3.4.3)
- (2) Item fails to function (see Table III)
- (3) No illumination (see Table III)

Burning time of functioned items shall be recorded for informational purposes.

d. A total of eight (8) or more in the ambient phase fail any of the following:

- (1) Parachute failure (see 3.4.3)
- (2) Item fails to function (see Table III)
- (3) No illumination (see Table III)
- (4) Burning time of functioned items incorrect (see 3.4.2)

e. A total of four (4) or more in the cold phase fail any of the following:

- (1) Parachute failure (see 3.4.3)
- (2) Item fails to function (see Table III)

MIL-C-63092(AR)  
AMENDMENT 3

(3) No illumination (see Table III)  
Burning time of functioned items shall be recorded for informational purposes.

Add the following:

"g. Burning time of two (2) or more of the total samples at ambient is less than 22 seconds."

PAGE 32

Paragraph 4.4.3.11. - Delete "and extra sample of eighty-eight (88)" and substitute "and extra sample of forty-four (44)"

Subparagraph a. - Delete "The eighty-eight (88)" and substitute the following:

"b. After transportation vibration, the rounds shall be unpacked and twenty-two (22) shall be subjected to the JAN temperature and humidity cycle (14 days) specified in MIL-STD-331, Test No. 105.

c. After temperature and humidity cycle, the forty-four (44) rounds shall be temperature conditioned and fired as follows:

14 rounds (+165 degrees F  $\pm$  5 degrees F)  
16 rounds ambient (between + 40 and +110 degrees F)  
14 rounds (-65 degrees F  $\pm$  5 degrees F)"

\* Add the following paragraph:

"4.4.3.12. X-ray examination of ballistic samples. - Prior to forwarding the sample cartridges for ballistic testing, they shall be x-rayed for critical and major defects. If any critical defects is found, the sample shall be removed and the lot rejected including the ballistic sample and 100% x-ray examination of the lot shall be performed prior to submitting a new ballistic sample. If any major defect is found it shall be noted and the sample forwarded for testing."

PAGE 33

Paragraph 4.5.1. - Delete "4.4.2.1 and 4.4.2.5" and substitute "4.4.2.3 and 4.4.2.6"

PAGE 34

Paragraph 4.5.2.4. - Delete "Ignition: and substitute "First fire"

MIL-C-63092(AR)  
AMENDMENT 3

Paragraph 4.5.4. - Delete "Candle power of illuminant assembly" and substitute "Static test of illuminant assembly" and add "Observation shall be made for the static characteristics of the applicable drawings."

Delete paragraph "4.5.5." in its entirety and substitute the following:

"4.5.5 Disassembly test of delay assembly. - The projectile assembly shall be placed in an approved fixture and the disassembly torque specified on the applicable drawing shall be applied. Observation shall be made for the requirement of the applicable drawing."

PAGE 36

\* Add the following paragraph:

"4.5.11 X-ray examination of ballistic samples. - The sample cartridges, prior to forwarding for ballistic testing, shall be subjected to x-ray examination using approved x-ray equipment."

\*The margins of this amendment are marked with an astrisk to indicate where changes (additions, modification, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assures no liability whatsoever for any inaccuracies in these notation. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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