

MIL-M-3935C
 AMENDMENT 1
 11 January 1972

MILITARY SPECIFICATION

MARKERS, SELF-LUMINOUS

This amendment forms a part of Military Specification MIL-M-3935C, dated 18 March 1970, and is mandatory for use by all Departments and Agencies of the Department of Defense.

Page 1

1.2, line 1, delete "following types," and substitute "following types and styles,".

1.2, line 7, delete reference to Type VII and substitute:

"Type VII - Aircraft exit marker.
 Style 1 - Stud mounted, class A and class B.
 Style 2 - Spring pin mounted."

2.1, under, SPECIFICATIONS, Federal, delete reference to "QQ-A-225/1" and "QQ-A-250/2b" and substitute:

QQ-A-225/1	- Aluminum Bar, Rod and Wire, Rolled, Drawn, or Cold Finished, 1100.
QQ-A-250/2	- Aluminum Alloy 3003, Plate and Sheet."

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2.1, under, STANDARDS, Military, delete reference to "MS39101" and add:

MS27758	- Markers, Self-Luminous; Type VIII Aircraft Marker (Sign) "Emergency Exit".
MS27829	- Markers, Self-Luminous, Aircraft Exit, Spring Pin Mounted."

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3.1, line 3, delete period after "66" and add: "and shall conform to the requirements specified in the Code of Federal Regulations, Title 10, Part 32."

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3.8, line 6, delete period after "excitor" and add "except that tritium activated powder shall not be used as a phosphor excitor."

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3.8, line 7, delete "The phosphor is to be" and substitute "The phosphor shall be".

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Tables I and II, delete all reference to Type VII, Class A and Class B and substitute:

"Table I.

Type Marker	Tritium (H ³)		Promethium (Pm ¹⁴⁷)		Range	
	Min	Max	Min	Max	Min	Max
VII						
Style 1						
Class A	50	150	8	20	35	50
Class B	20	120	5	15	9	12
Style 2	35	65	n/a	n/a	25	50

Table II.

Type Marker	Initial	1 Yr	2 Yr	3 Yr
VII				
Style 1				
Class A	35	32	23	17
Class B	9	8	6	4
Style 2	35	32	23	17"

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3.15, table III, line 1, delete: "Tritium activated powder 3.0".

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3.21.1, line 1, insert: "Style 1," before "Class A" in two places.

3.21.2, line 1, insert: "Style 1," before "Class B" in two places.

After 3.21.4 add:

"3.21.5 Style 2 aircraft exit marker-spring pin mounted. The style 2 marker shall be as shown on MS27829."

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3.22, line 2, delete "MS39101" and substitute "MS27758".

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After 4.1 add new paragraph:

"4.1.1 Acceptability criteria. Markers which conform to all requirements in sections 3 and 5 of this specification and pass all applicable examinations and tests in section 4 of this specification will be considered acceptable by the Government."

4.4, line 3, delete: "the first 100 vehicle or"; lines 3 and 4, delete: "the first 500".

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After 4.5.4 add new paragraph:

"4.5.5 Test for Solubility. Each lot of luminous materials to be used in manufacture of markers shall be tested for solubility in accordance with 4.6.3. Lot size for self-luminous powder shall not exceed 500 grams. Lot size for tritium gas filled tubes shall not exceed 100 tubes. Reports of the test findings shall be submitted to the Government. Failure of this test shall be cause for rejection of material in tubes from the rejected lot."

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4.6.2.2, table IV, delete reference to solubility test.

Page 12

4.6.3.1, delete.

4.6.3.2, line 6, delete "shall" and substitute "should"; line 8, delete "be rejected." and substitute "constitute failure of this test."

4.6.3.3, line 10, delete "shall" and substitute "should"; lines 10,11, and 12, delete last sentence and substitute: "Powder lots exceeding 0.1 percent shall constitute failure of this test."

4.6.4, line 5, delete "will" and substitute "shall".

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4.6.10.3, at end of paragraph, add: "Nonconformance to 3.12 shall constitute failure of this test."

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4.6.10.4.3, line 1, delete "Rejection" and substitute "Failure".

After 4.7, add:

"4.7.1 Inspection failure. Failure of any marker when inspected as specified in 4.7 may be considered cause for refusal by the Government to continue acceptance of markers until objective evidence furnished by the supplier reveals that corrective action has been taken to eliminate the condition which caused the rejection."

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6.1, lines 1, 2, and 3, delete: "and type III markers for use on vehicles, bridge abutments, and other military markings."

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6.2 (d), delete: "and number of markers to be furnished".

6.2 (e), delete.

6.2 (g), delete and substitute:

"(g) When the supplier's standard practice of packaging is required (see 5.1.2)."

Custodians:

Army - ME
Air Force - 82

Review activities:

Army - GL, MD

User activity:

Navy - YD

Preparing activity:

Army - ME

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