

INCH-POUND

MIL-C-70508 (AR)
 AMENDMENT 8
 14 JANUARY 1998
 SUPERSEDING
 AMENDMENT 7
 18 MARCH 1993

MILITARY SPECIFICATION

CARTRIDGE, 9MM, BALL, NATO, XM882

MIL-C-70508 was inactivated after 14 February 1996 For New Design

This Amendment forms a part of MIL-C-70508(AR), dated 7 February 1985, and is approved for use by the US Army Armament Research, Development and Engineering Center and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

Title: Add, "(M882)" after "XM882".

1.1, Last line: Add "(M882)" after "XM882".

PAGE 2

2.1.2, under DRAWING 9345111: Add "(M882)" after "(XM882)".

2.2.1, Delete: "9354344 - Packaging and Marking, Cartridges, 9mm, Ball, NATO, XM882, Cartons, Box Ammunition, M2A1, Box Wirebound" and substitute, "9396206 - Packing and Marking for Box, Wirebound, for Cartridges, Small Caliber".

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3.6, second line: Delete "385" and substitute "375".

Add paragraph 3.8.1:

"3.8.1 Alternate accuracy requirement. The average mean radius of all ten round targets fired at a range of 50 yards from the muzzle shall not exceed 3.47 centimeters."

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Delete paragraph 3.12 in its entirety and substitute:

"3.12 Compressive force resistance. When subjected to a compressive force of 75 pounds, the average overall length of the sample cartridges shall not be less than 1.140 inches, and no individual cartridge shall be less than 1.125 inches."

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* Add paragraph 3.15:

"3.15 Fouling. The cartridge shall not cause excess fouling when fired in the M9 Pistol."

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* TABLE I, Add:

"Fouling	2000	3.15	4.5.11"
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4.4.2.1:

Delete:	"3. No primer	100%	3.3	Visual
	4. Cocked primer	100%	3.3	Visual
	5. Inverted primer	100%	3.3	Visual"

Add under CRITICAL:

"3. Minimum propellant level	100%	3.3	Gage"
(Dwg. 9345211, Note 4)			

Add after critical defects:

"SPECIAL:

a.	No primer	100%	3.3	Visual
b.	Cocked primer	100%	3.3	Visual
c.	Inverted primer	100%	3.3	Visual"

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TABLE II:

* Add:

"Fouling <u>5</u> /	<u>Ambient</u>
	2000"

Delete Note 3 in its entirety and substitute:

"3/ Function and casualty defects shall not exceed the acceptance percentages specified in Table III. When testing submachine guns, the number of cartridges specified at ambient temperatures shall be equally divided between horizontal and 80° depressed weapon firings. Failure of the cartridges to comply with the function and casualty requirements shall be cause for rejection of the lot, subject to the testing of a second sample consisting of double the quantity of cartridges used in the first sample. For those defects for which the allowable acceptance percentage in Table III is 0.00, the occurrence of a defect of this type in the second sample shall be cause for rejection of the lot. For those defects for which the allowable acceptance percentage is greater than 0.00, failure of the cartridges in the combined first and second sample to comply with the requirements of Table III shall be cause for rejection of the lot."

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* TABLE II, Add:

"5/ After five (5) consecutive production lots successfully pass the fouling test, the frequency of fouling testing shall be reduced to testing one out of every five (5) production lots. After an additional five (5) consecutive fouling tests are successfully passed, fouling test frequency shall be further reduced to testing one out of every ten (10) production lots. The lots to be tested shall be selected randomly by the Government. In the event of a failure of the fouling test, fouling testing of each lot shall be reinstated and the above procedures repeated for reducing the frequency of testing."

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4.5.6, End of paragraph: Add "Record the sample standard deviation of the mean radii for the ten targets".

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4.5.7.e, Delete "Model 4" and substitute: "Model 12/5".

Delete paragraph 4.5.7.1 in its entirety and substitute:

"4.5.7.1 Test weapons. Unless otherwise specified in the contract, the contractor shall furnish unaltered commercially equivalent pistols (weapons b. and c. listed in 4.5.7). Function and casualty testing with other weapon types shall be limited to those weapon types identified as government furnished in the contract. (See 6.1.c)"

Add paragraph 4.5.7.2:

"4.5.7.2 Reduced function and casualty testing. When five (5) successive production lots have successively met the function and casualty requirements in all required weapons, testing for function and casualty shall be reduced. Reduced tests shall consist of function and casualty testing one out of every ten (10) production lots in all specified weapon types. The lot to be tested shall be selected randomly by the government. The remaining nine (9) lots shall be function and casualty tested only in the M9, 9mm pistol. Failure of any lot to meet the function and casualty requirements shall result in reinstatement of lot-by-lot testing in all specified weapon types and the above procedure shall be repeated in returning to reduced inspection."

* Delete paragraph 4.5.11 in its entirety and substitute:

"4.5.11 Fouling. The fouling test shall be performed utilizing 2 M9 Pistols, with the total test sample equally divided between the 2 pistols (1000 rounds per pistol). Prior to testing, the pistols shall be cleaned and lubricated and measurements made of the firing pin protrusion, firing pin indent and headspace. Measurements shall fall within the following limits:

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Firing pin protrusion	0.15 - 0.188 cm (0.060 - 0.069 inches)
Firing pin indent	0.030 cm minimum (0.011 inches minimum)
Headspace	1.915 - 1.938 cm (0.754 - 0.763 inches)

4.5.11.1 Firing procedure. Pistols shall be fired hand held or in a fixture simulating hand firing using fully loaded magazines whenever possible. The pistols shall be cooled after every 250 rounds of firing.

4.5.11.2 Cleaning and lubrication. The pistols shall be field cleaned every 500 rounds as follows:

- a. Remove the slide and barrel assembly from the pistol and disassemble the recoil spring, spring guide, locking block and barrel assembly from the slide and barrel assembly. No further disassembly of the pistol is permitted.
- b. Clean the slide assembly, locking block, barrel, recoil spring, spring guide and receiver assembly parts with a cloth or soft brush using CLP. Clean the barrel bore with cleaning patches and a bore brush using CLP. After cleaning, apply a light coat of CLP or LSA to all parts and reassemble.

4.5.11.3 Results. After firing of 1000 rounds in each M9 Pistol, the firing pin protrusion shall be measured and compared with the measurement obtained at the start of the test. If the difference between the two measurements does not exceed .010 inches for both pistols, the lot shall be accepted.

4.5.11.4 Retest. If any difference in firing pin protrusion measurements exceeds 0.010 inches, a retest consisting of firing an additional 1000 rounds shall be fired in each of two (2) M9 pistols. The pistols used in the retest shall be different weapons than those used in the original test, and shall be selected by the Government representative. Prior to the retest, the pistol(s) shall be completely disassembled and thoroughly cleaned. Firing pin protrusion, firing pin indent and headspace shall be remeasured and shall fall within the limits specified in 4.5.11. If the difference between the initial protrusion measurement and the protrusion measured after firing the retest exceeds .010 inches, the lot shall be rejected.

4.5.11.5 Misfires. The occurrence of a misfire resulting from excessive fouling at anytime during the fouling test shall result in rejection of the lot. The firing pin protrusion shall be measured immediately after the occurrence of a misfire. If the protrusion is less than .025 inches, it shall be assumed the misfire was fouling induced and lot shall be rejected. The occurrence of 2 or more misfires during the fouling test shall also result in rejection of the lot.

4.5.11.6 Other firing defects. Other firing defects occurring during the fouling test shall not exceed the percentages specified in Table III."

* Renumber existing paragraphs 4.5.11 and 4.5.12 to 4.5.12 and 4.5.13.

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5.1, Last line: Delete "9354344", and substitute "9396206".

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Add under paragraph 6.1: "c. Provisions for supply, maintenance and disposition of function and casualty test weapons."

Add paragraph 6.4:

"6.4 International agreement. Certain provisions of this specification are the subject of international standardization agreement NATO STANAG 4090. when amendment, revision, or cancellation of this specification is proposed which will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels including departmental standardization offices to change the agreement or make other appropriate accommodations."

The margins of this amendment are marked with an asterisk or vertical line to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. 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.

Custodian:
Army-AR

Preparing activity:
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