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INCH-POUND

MIL-C-46931F (AR)
AMENDMENT 1
04 November 1993

MILITARY SPECIFICATION

CARTRIDGE, 7.62MM, NATO, BALL, M80

This amendment forms a part of MIL-C-46931F (AR), dated 29 March 1991, and is approved for use by the US Army Armament, Munitions, and Chemical Command, and is available for use by all Departments and Agencies of the Department of Defense.

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3.7.1 Add the following to the end of paragraph 3.7.1:

"If velocity is measured using the EPVAT System, the chamber pressure measurement must be performed using the EPVAT System as well."

PAGE 6

3.7.1.5: Delete in its entirety.

3.7.1.6: Delete in its entirety.

3.7.1.7: Delete in its entirety.

Add new paragraphs 3.7.2, 3.7.2.1, and 3.7.2.2 as follows:

"3.7.2 Velocity. The velocity test may be performed using a velocity test barrel or the EPVAT method. The test method employed shall be recorded on the test results.

3.7.2.1 Velocity measurement by velocity test barrel. The average velocity of the sample cartridges conditioned at 70°F shall be 2,750 ± 30 ft/sec at 78 feet from the muzzle of the weapon. The standard deviation of the velocities shall not exceed 32 ft/sec.

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3.7.2.2 Velocity measurement by EPVAT test method. The average velocity of the sample cartridges conditioned at 70°F shall be 2,735 ± 30 ft/sec for gilding metal clad steel jacketed bullets or 2,665 ± 30 ft/sec for gilding metal jacketed bullets at 78 feet from the muzzle of the weapon. The standard deviation of the velocities shall not exceed 32 ft/sec."

3.8: Delete in its entirety and substitute the following:

"3.8 Port pressure. The port pressure measurement may be performed by either the copper-crush cylinder or EPVAT test method. If velocity is measured using the EPVAT system, the port pressure measurement must be performed using the EPVAT system as well. The average port pressure of the sample cartridges when conditioned for not less than 2 hours at 68° to 72°F and fired at that temperature shall be as noted in the applicable subparagraphs."

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Table I, in requirement column:

Delete "3.7.1.5" and substitute "3.7.2" in one place.

Delete "3.7.1.6" and substitute "3.7.2.3" in two places.

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Table I, in requirement column:

Delete "3.7.1.7" and substitute "3.7.3" in 6 places.

PAGE 12

Table I, in requirement column:

Delete "3.7.1.7" and substitute "3.7.3" in 12 places.

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Table IV, under requirement paragraph column:

Delete "3.7.1.7" and substitute "3.7.3" in one place.

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Delete "3.9.1.5, 3.9.1.6" and substitute "3.7.2.1, 3.7.2.3" in one place.

Delete "3.9.1.1, 3.9.1.3" and substitute "3.7.1.1, 3.7.1.3" in one place.

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Table IV, under requirement paragraph column:

Delete "3.9.1.5, 3.9.1.6" and substitute "3.7.2.2, 3.7.2.3" in one place.

Delete "3.9.1.2, 3.9.1.4" and substitute "3.7.1.2, 3.7.1.4" in one place.

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