

INCH-POUND

MIL-DTL-45444C  
AMENDMENT 1  
17 April 1999

DETAIL SPECIFICATION

HMX  
(CYCLOTETRAMETHYLENETETRAMINE)

This amendment forms a part of MIL-DTL-45444C, dated 26 November 1999, and is approved for use by all Departments and Agencies of the Department of Defense.

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2.2.1 Delete the following documents:

"RR-S-366  
MIL-STD-1235  
DOD-STD-2101"

and substitute the following:

"MIL-STD-1916 - DOD Preferred Methods for Acceptance of Product"

2.2.2 Under DRAWINGS add the following:

"U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER (ARDEC)

12982865 - Minimum Marking Instructions for Ammunition and Explosive Containers"

2.3 Non-government publications, add the following:

"ASTM E11 - Wire-Cloth Sieves for Testing Purposes"

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4.4.2 Inspection to be performed, last sentence, delete in its entirety and substitute the following:

"(See MIL-STD-1916 for definitions of critical, major and minor classification of characteristics.)"

4.5.1 Inspection lot formation, delete second sentence from the bottom and substitute the following:

"The lot shall be submitted for inspection in accordance with MIL-STD-1916 when applicable."

4.5.2a Classification of characteristics, bottom of page, delete last sentence and substitute the following:

"(See MIL-STD-1916 for definitions of critical, major and minor classification of characteristics.)"

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4.6.1 Sampling, delete the second sentence and substitute the following:

"The selection of batches for inspection sampling and testing shall be in accordance with MIL-STD-1916 except that in lieu of Table IV (MIL-STD-1916), the following continuous sampling plan shall be used:  $i=10$ ,  $f=1/3$  and there shall be no reduced or tightened inspection level."

Sampling, last sentence, delete "MIL-STD-1235" and substitute "MIL-STD-1916".

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4.7.1.6.1, HPLC method conditions.

Delete the 3<sup>rd</sup> sentence, "The mobile phase shall....., and 7.5% by volume of methanol.", and substitute with the followings:

"The mobile phase shall be a quaternary system consisting of the following components and volumetric proportions: 70% of 2,2,4-trimethylpentane (iso-octane), 20% of chloroform, 7% of acetonitrile and 3% of methanol. In actual

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application, the volumetric ratio of solvents can be adjusted slightly to "optimize" the chromatography of the components of interest (RDX or HMX)."

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4.7.8 Granulation, second subparagraph, first sentence, delete ". . . specified 8-inch U.S. Standard sieves complying with Specification RR-S-366 . . .", and substitute ". . . specified 8-inch U.S. Standard sieves complying with ASTM E11 . . ."

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4.7.9 Workmanship, Note, delete and substitute the following new note:

"(See MIL-STD-1916 for definitions of critical, major and minor classification of characteristics.)"

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6.4.3 Marking, second sentence, delete "Standard MIL-STD-129-1" and substitute "Drawing 12982865".

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6.4.6a. Delete "MIL-STD-129-1" in its entirety.

Custodian:  
Army - AR  
Navy - OS  
Air Force - 99

Preparing activity:  
Army - AR

(Project 1376 - 0060)