

INCH-POUND

MIL-DTL-398D
AMENDMENT 1
17 April 1999

DETAIL SPECIFICATION

RDX
(CYCLOTRIMETHYLENETRINITRAMINE)

This amendment forms a part of MIL-R-398D, dated 12 December 1996, 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 with the following:

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

2.2.2 Under "DRAWINGS" add:

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

12982865 - Minimum Marking Instructions for Ammunition and Explosive Containers"

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2.3 Non-government publications, add the following:

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

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3.3 Granulation., Delete Table II and substitute with Table II below: (Note: This is an editorial change for better clarity, the technical contents in Table II have not been changed.)

The granulation requirements shall be as specified in Table II when tested in accordance with 4.7.6.

TABLE II. Granulation requirements for RDX classes

Through U.S. Standard Sieve No	Class 1 Wt. Percent	Class 2 Wt. Percent	Class 3 Wt. Percent	Class 4 Wt. Percent	Class 5 Wt. Percent	Class 6 Wt. Percent	Class 7 Wt. Percent	Class 8 Wt. Percent
8				100				
12			99 (min)					
20	98 ± 2							
35		99 ± 1		20 ± 20				100
50	90 ± 10	95 ± 5	40 ± 10				98 ± 2	98 (min)
60						99+1/-3		
80						97+3/-6		
100	60 ± 30	65 ± 15	20 ± 10				90 ± 8	90 (min)
120						83+10/ -16		
170						65 +15/ -22		
200	25 ± 20	33 ± 13	10 ± 10				46 ± 15	70+10/-15
230						36 ± 14		
325					97 (min)	22 ± 14		50 ± 10

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4.4.2 Inspections 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 bottom and substitute the following:

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

- 4.5.2a, Classification of characteristics, parenthetical note, delete "DOD-STD-2101" and substitute "MIL-STD-1916"

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- 4.6.1 Sampling, delete 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: $i=7$, $f=1/3$ and there shall be no reduced or tightened inspection level."

Sampling, second sentence from the bottom, delete "MIL-STD-1235" and substitute with "MIL-STD-1916".

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- 4.7.2 Determination of insoluble particles, second sentence, delete in its entirety and substitute the following:

"Sieve shall comply with the requirements of ASTM E11."

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- 4.7.6 Determination of granulation, subparagraph a, 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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- 4.7.7.1, HPLC method conditions: Delete the 3rd 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 application, the volumetric ratio of solvents can be

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adjusted slightly to "optimize" the chromatography of the components of interest (RDX or HMX)."

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4.7.9 Workmanship, Note, delete "DOD-STD-2101" and substitute "MIL-STD-1916"

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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, Marking for Shipment - Ammunition and Explosives" in its entirety.

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

Preparing activity:
Army - AR

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