

MIL-N-494A  
AMENDMENT 7  
11 April 1983  

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SUPERSEDING  
AMENDMENT 3  
31 Jan 1964  
INT. AMENDMENT 6 (AR)  
25 March 1981

MILITARY SPECIFICATION  
NITROGUANIDINE (PICRITE)

This Amendment forms a part of Military Specification  
MIL-N-494A, dated 22 March 1963, and is approved for use by  
all Departments and Agencies of the Department of Defense.

PAGE 1

1.2, Class 1: Delete "4.3" and substitute "3.4"

Class 2: Delete "less than 3.3 microns" and substitute  
"3.3 microns maximum".

2.1, Insert the following before "Standards":

"Specifications, Federal:

PPP-T-60 Tape, Packaging, Waterproof"

Insert the following after "Standards":

"Standards, Federal:

Federal Standard No. 101, Preservation and Packing  
Materials: Test Procedures"

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Table I, Acidity, Type I: Delete "0.60" and substitute "0.06".

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Code of Federal Regulations: Delete the material under this heading and replace with the following:

"49CFR100-199 - Department of Transportation Rules and Regulations for the Transportation of Explosives and Other Dangerous Articles. (The Code of Federal Regulations is available from the Superintendent of Documents, US Government Printing Office, Washington, DC 20402. Orders for the above publication should cite "49CFR100-199 (latest revision)".)"

Table II, Class 1 - Delete "4.3" and substitute "3.4".

Class 2 - Delete "less than".

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4.2.2.3, Delete: "Fiberboard box" and replace with "Fiber drum".

Delete Major defect 102 entirely and renumber.

Delete all information under Minor defects and replace with "None Defined."

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4.2.2.4, Delete: "Fiberboard box" and replace with "Fiber drum".

Major 101, replace "Box" with "Drum"

Under 101, Add: "102. Improper Assembly (cover not flush, tape not as specified).....Visual"

Delete information at Minor 201 and renumber remaining entries.

4.2.2.5, Delete in its entirety.

\* 4.2.2.6, Delete in its entirety.

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5.1.1, Delete in its entirety and substitute the following:

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"5.1.1 Level A (packing not for tactical deployment). Fifty pounds of nitroguanidine shall be packed in a fiber drum complying with the requirements of 5.1.1.1. After the drum has been filled, the cap (cover) and the body (shell) seam shall be secured with 2 inch wide, minimum, tape complying with PPP-T-60. The drum shall be placed in a barrier bag constructed from material conforming to Type I, Class F, MIL-B-117. The bag shall be heat sealed. The bagged drum shall be placed in a tight fitting, wirebound box conforming to Type I, Class 1, Grade A, MIL-B-46506. The box shall be lined with mandatory fillers conforming to MIL-F-50449. Use additional fillers as required for tight pack.

5.1.1.1 Fiber drum. The All Fiber Drum, capacity approximately eighteen gallons, shall comply with specification DOT 21C60 and the following requirements:

a. The inside dimensions of the drum shall be approximately 14 inches in diameter and 27 inches in height.

b. The drum shall be of double wall construction. The side wall (outer shell or telescoping cover and inner tube) shall consist of two cylindrical units, convolutely wound and with no single ply less than 0.012 inch thick. Each unit shall have all plies firmly bonded together with a container grade thermoplastic (hot melt) adhesive that will not permit a ply edge separation greater than 1/4 inch after testing for water resistance (ply separation) by method 3028 of Federal Test Method No. 101 as suggested for weather resistant fiberboard. All areas more than 1/4 inch from the edges shall remain bonded.

c. The combined plies making up the sidewall (outer shell plus inner tube) shall have a minimum thickness of 0.108 inch and a minimum dry bursting strength (Mullen) of 900 PSI.

d. The drum top and bottom (headings) shall consist of multiples of fiberboard with outer plies containing a polyethylene moisture barrier having a maximum water vapor transmission rate of 1.0 gram/100 sq inches/24 hours at 1 atmosphere, 100°F and 90% RH. The drum headings shall be laminated with water resistant adhesive that will not permit a ply edge separation greater than 1/4 inch when tested by the method used for sidewall described above in 5.1.1.1b.

e. The drum shall have a telescoping cover for flush cap to body (shell). The gap (seam) between the outer sidewall elements (cover and shell) of the assembled drum shall be 0.025 inch, minimum, to 0.250 inch maximum.

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f. The cover (drum cap) and bottom shall be wax dipped. One inch minimum.

g. The drum shall be fabricated without staples. No metal shall be used in the construction of the drum.

h. The outer construction seams of outer sidewall elements in the cover and shell shall be covered with a 2 inch water resistant tape glued with a water resistant adhesive."

5.1.2 and 5.1.2.1, Delete and substitute the following:

"5.1.2 Level B. Level B packing shall be the same as Level A, except the barrier bag and mandatory fillers shall be eliminated however, continue to use fillers as required for tight pack."

5.1.3, Add the following:

"5.1.3 Level C. Level C packing shall be the same as Level A except the barrier bag and wirebound box shall be eliminated."

5.2 Delete and substitute the following:

"5.2 Marking

5.2.1 Level A

5.2.1.1, Unit packaging (Fiber Drum) shall be marked in accordance with 5.6.1.1 of MIL-STD-129.

5.2.1.2 Exterior pack (Wirebound Box) shall be marked on the side and top with letters 1/2 inch (nominal) high, unless otherwise specified, using stencil ink, Type I or III, TT-1-1795 with the following information:

"HIGH EXPLOSIVE - DANGEROUS" (DOT proper shipping name)

"50 POUNDS"

"NITROGUANIDINE"

"NSN 1376-00-628-3329" (1 inch nominal)

"LOT NO. " (insert Lot no. 1 inch nominal)

"GROSS WT. " (insert Gross Weight in lbs to nearest lb)

5.2.1.2.1 Special Marking. Exterior pack shall be marked on the top and side, with letters 1 inch (nominal) high, using stencil ink, Type I or III, TT-1-1795, as follows: "PACKING NOT FOR TACTICAL DEPLOYMENT".

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5.2.2 Level B. . Level B shall be marked the same as cited in Paragraph 5.2.1.2.

5.2.3 Level C. Level C shall be marked as cited in Paragraph 5.2.1.2 except the DOT proper shipping name will be placed within 3 inches of the top and bottom of the drum."

6.4, After "STANAG, No. 4026", Add: "and ABC-Army-STD-114".

6.5, Delete in its entirety.

The margins of this amendment have been marked with an asterisk or vertical lines to indicate where changes (additions, modifications, corrections, deletions) from Amendment 3 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 the document based on the entire content irrespective of the marginal notations and relationship to the previous amendment.

Custodians:  
Army-AR  
Navy-OS

Preparing activity:  
Army-AR

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