

INCH-POUND

MIL-E-46676A (AR)
AMENDMENT 2
14 March 1997
SUPERSEDING
AMENDMENT 1
15 April 1969

MILITARY SPECIFICATION
EXPLOSIVE, FLEXIBLE

This Amendment forms a part of Military Specification MIL-E-46676A (AR) dated 17 April 1964, and is approved for use by the U.S. Army Armament Research, Development and Engineering Center, and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

Paragraph 2, APPLICABLE DOCUMENTS, SPECIFICATIONS, MILITARY: Following "MIL-B-2427" delete "A".

PAGE 3

Paragraph 3.4, Physical properties, Table I, Rate of Detonation: Delete: "maximum (max.) 7500" wherever it appears.

* Table I - Add the following row to Table I:

"DMDNB (2,3 dimethyl 2,3 dinitrobutane)	1.25 +/- 0.25 wt. %	1.25 +/- 0.25 wt. %"
--	---------------------	----------------------

AMSMC N/A

1 of 3

FSC 1375

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MIL-E-46676 (AR)
AMENDMENT 2

PAGE 4

* Table II - Add the following row to Table II:

"DMDNB 4.3.17 4.3.17 4.3.17 4.3.17"
(2,3 dimethyl 2,3 dinitrobutane)

Table II, Classification of test, lot acceptance test, exudation: Add, "4.3.6".

PAGE 15

* Add new paragraph 4.3.17:

"4.3.17 DMDNB content. Two samples shall be taken from each batch (top and bottom). Each sample shall be analyzed in duplicate. One gram each of the samples will be dissolved in 100 ml acetonitrile. To ensure complete dissolution of DMDNB, the sample solution will be sonicated and shaken for about one hour each, and set aside overnight before determination of DMDNB by high performance liquid chromatography (HPLC) with the following conditions:

Varian Bondesil C-8, 5 um
Column: RP-8/5, 25 cm, dia. 4.6 mm
Mobile phase: 30% CH3OH/ 70% H2O
Detector: UV, 220 nm
Temp: 35 degree C.
Flow rate: 1.5 ml/min.
Chart speed: 1.0 cm/min.
Injection volume: 10 ul"

PAGE 16

Paragraph 5, PREPARATION FOR DELIVERY: Delete in its entirety and substitute:

"5. PREPARATION FOR DELIVERY

5.1. Packaging.

5.1.1 Level A. The sheets of flexible explosive shall be separated by release paper and packaged in cartons. The cartons shall conform to Specification PPP-B-636, W5c, W5s or V3c.

5.1.2 Level C. The sheets of flexible explosive shall be separated by release paper and packaged in accordance with the Code of Federal Regulations 49 CFR 171-179.

5.2 Packing.

5.2.1 All packing shall conform to the Code of Federal Regulations 49 CFR 171-179.

MIL-E-46676 (AR)
AMENDMENT 2

5.2.1.1 Level A. Unit cartons shall be packed in nailed wood box conforming to MIL-B-2427, Type I, Class I, Grade A. Closure and strapping shall be in accordance with the Appendix of the specification.

5.2.1.2 Level C. Packing shall conform to the carrier rules and regulations specified in 5.2.1.

5.3 Marking.

5.3.1 Unit cartons. Unit cartons shall be marked with the nomenclature, net weight and lot identification.

5.3.2 Box marking. Marking shall be in accordance with the Picatinny Arsenal Drawing C8796522, less Note E. The ICC nomenclature shall be:

"HIGH EXPLOSIVE - DANGEROUS"

* Add new paragraph 6.5:

"6.5 Flexible explosive manufactured before September 95 and in accordance with MIL-E-46676A (Amendment 1) does not contain DMDNB in the formulation of the flexible explosive."

NOTE: The margins of this amendment are marked with an asterisk 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
Army-AR

(Project 1375-0042))