

UNCLASSIFIED

AD 4 2 5 8 6 8

DEFENSE DOCUMENTATION CENTER

FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA, VIRGINIA



UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.



NAVAL AIR ENGINEERING CENTER

PHILADELPHIA 12, PA.

In Reply Refer To:
XM-42-DM:lbj
10360
(1429)

26 NOV 1963

From: Commanding Officer, Naval Air Engineering Center, Philadelphia 12, Pa.
To: Chief, Bureau of Naval Weapons (RRMA-51)

Subj: PAN C 12 RMA 53-1, Miscellaneous Work Under Preservation & Packaging-
Parts and Equipment; Report No. NAEC AML 1808, Requirements and
Methods of MIL-C-18487(NOrd) and MIL-C-11796, Class 2, Review of

Ref: (a) EUWEPS ltr RRMA-36 of 22 Aug 1961
(b) NAEC ltr XM-2-JHB:jsk 3930/2 (304) of 26 Jun 1963

1. The Naval Air Engineering Center was requested by reference (a) to review a series of Bureau of Ordnance specifications for cancellation, combination, or revision. Action on a number of these was presented in reference (b), at which time, the Aeronautical Materials Laboratory indicated intention to investigate the consolidation of MIL-C-18487(NOrd) with MIL-C-11796, Class 2 under PAN C 12 RMA 53-1.

2. With the exception of the Salt Spray and Rain test, requirements and methods contained in MIL-C-18487(NOrd) are similar to those of Class 2 under MIL-C-11796. Specimens coated with a compound conforming to MIL-C-11796, Class 2 were subjected to the Salt Spray and Rain test which consisted of the following:

a. One coated specimen was sprayed lightly with a 4% salt solution and exposed directly to the weather for 60 days.

b. Three coated specimens were conditioned for 24 hours at 140°F. One was exposed directly to the weather for 60 days. Another was sprayed lightly with a 4% salt solution once every day for a period of 5 days. The third specimen was exposed to an intermittent shower of water maintained at 100°F for 5 hours after which the specimen was permitted to dry for 24 hours.

Upon completion of these exposures, the specimens were examined and observed to be free from rust.

3. Based on the foregoing, it is recommended that MIL-C-18487(NOrd) be cancelled and that MIL-C-11796, Class 2 compounds be used for those applications where the former was specified.

4. This is a partial report under the subject problem assignment which will be held open to permit completion of other work now in progress.

R E Fellowes
R. E. FELLOWES
By direction

Copy to:
WESO, NAVALRENGCEN

425868
QUALIFIED REQUESTERS MAY OBTAIN COPIES OF THIS REPORT DIRECT FROM DDC
UNCLASSIFIED
THIS REPORT MAY BE RELEASED OUTSIDE OF THE MILITARY DEPARTMENTS AND EXECUTIVE AGENCIES OF THE UNITED STATES GOVERNMENT ONLY WITH PAGES 2-11-76 REMOVED

DEC 5 1963