

MIL-O-13830A
AMENDMENT 3
28 September 1987
SUPERSEDING
AMENDMENT 2
9 JULY 1982

MILITARY SPECIFICATION

OPTICAL COMPONENTS FOR FIRE CONTROL INSTRUMENTS;
GENERAL SPECIFICATION GOVERNING THE MANUFACTURE,
ASSEMBLY, AND INSPECTION OF

THIS AMENDMENT FORMS A PART OF MIL-O-13830A, DATED 11 SEPTEMBER 1963, AND IS
APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

PAGE 1

- * 2.1, Specifications, Military: Delete "MIL-A-14443 - Adhesives, Glass to Metal for Bonding of Lenses" and substitute "MIL-A-48611 - Adhesive System, Epoxy - elastomeric, For Glass To Metal".
- * Drawings: Delete "U.S. Army Munitions Command" and "F7560085 - Vibration Tester" and substitute "U.S. Army Armament Research, Development and Engineering Center".

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- * 3.2.3, line 3: Delete "Specification MIL-A-14443" and substitute "MIL-A-48611".

PAGE 3

- * 3.5.5.1, line 3: Change the word "date" to "data".

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- * 3.7.9.2, lines 11 and 12: Change from "shall not exceed 10 percent" to "shall not exceed 30 percent".

PAGE 6

- * 3.7.10.2, lines 4 and 5: Change from "shall not exceed 10 percent" to "shall not exceed 30 percent".

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AMSC N/A

FSC 6650

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- * 3.7.11.4: Delete in its entirety and substitute "3.7.11.4 Markings. Reticle markings shall be viewed through an eyepiece of essentially the same power under which the reticle will be viewed in the finished instrument. Letters and numerals (whether in part number or adjacent to graduations) shall be inspected primarily for legibility. Defects in numbers or letters shall be acceptable provided each letter or figure is legible beyond doubt. Unless otherwise specified, any printing style is permitted for letters and numbers, however, the style selected must be uniform throughout each reticle and must meet with the approval of the procuring agency. Line breaks one half the width of the line shall be permitted. For reticles containing more than 15 lines, 1 break per 5 lines or fraction thereof shall be permitted. All lines shall appear to be of uniform width and depth and the intersections of lines shall appear to be sharp. Smooth or abrupt variations in line width along the entire line shall not be in excess of 20 percent of the line width and in no case shall reticle lines be bowed in excess of 1/2 the reticle line width. The fillet radius at the intersection of reticle lines shall not exceed the line width. Acid burns shall be cause for rejection, if visible when reticle is viewed with appropriate eyepiece."

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4.2.10.7: Delete in its entirety and substitute "4.2.10.7 Vibration test. Each optical instrument shall be mounted singly or in groups on an approved vibration machine and fixture and vibrated at an amplitude of not less than 1/16 inch (1/8 inch total movement at the center of the mounting face of the fixture) at a frequency of 30 Hz for 2 to 2 1/2 minutes."

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