

INCH-POUND

MIL-S-8844D
AMENDMENT 1
1 DECEMBER 1990

MILITARY SPECIFICATION

STEEL BAR, REFORGING STOCK, AND MECHANICAL TUBING
LOW ALLOY, PREMIUM QUALITY

This amendment forms a part of MIL-S-8844D, dated 30 June 1987 and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

1.1: Delete "multiple vacuum melted" and substitute "vacuum remelted".

1.2.1: Delete "Class 2" and substitute "Class 3".

PAGE 2

2.1.1: Delete "FED-STD-151 Metals: Test Methods".

PAGE 3

2.2: Add, after ASTM E 112:

"ASTM E 350 Chemical Analysis of Carbon Steel, Low Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron"

PAGE 4

3.4.1: Delete and substitute:

" 3.4.1 Verification of response to heat treatment. All steel supplied under this specification shall be capable of developing the transverse mechanical properties listed in Table III when heat treated in accordance with 4.4.4.4.1 for the respective compositions."

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PAGE 4

3.8: Delete: "Class 2: Rockwell C-55 at 8/16 inch
Rockwell C-53 at 20/16 inch"

PAGE 6

4.4.3.3: Delete and substitute:

" 4.4.3.3 Test Method. Chemical composition of the samples shall conform to the percentages by weight given in Table II, determined by wet chemical methods in accordance with ASTM E 350, by spectrochemical methods, or by other analytical methods acceptable by the contracting agency. In the event of a dispute, analysis shall be by wet chemical methods."

4.4.4.1: Delete "Tables III and IIIa" and substitute "Table III".

PAGE 7

4.4.4.4.1: Delete "Class 2" and substitute "Class 3".

4.4.5: Delete and substitute:

"4.4.5 Steel cleanliness inspection. The steel shall be tested in accordance with AMS 2300 to determine conformance to the frequency/severity requirement of 3.1. The other exception to AMS 2300 is that the magnetic particle inspection method specified in AMS 2300 shall be in accordance with MIL-STD-1949 rather than AMS 2640.

PAGE 8

4.4.7.2: Delete "...conforming to 3.7.".

4.4.8.1 Delete and substitute:

"4.4.8.1 Sampling. Samples shall consist of, not less than four specimens representing the top and bottom of the first and last ingots from a heat yielding 10 or fewer ingots, and not less than six specimens representing the top and bottom from the first, middle, and last ingots from a heat yielding more than 10 ingots."

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4.4.9.2 Delete and substitute:

"4.4.9.2 Specimen preparation and inspection. The samples shall be prepared in accordance with the hot hydrochloric acid (160°F) test of ASTM A 604. The etched samples shall meet the requirements of 3.7."

PAGE 12

Table II: Delete "Class 2" and substitute "Class 3".

PAGE 13

Table III: Delete "2" in the column under "Class" and substitute "3".

PAGE 14

Delete the entire page. (TABLE IIIa Longitudinal mechanical properties.)

Custodians:

Army - MI
Navy - AS
Air Force - 11

Review Activities:

Army - MI
Air Force - 11
DLA - DISC

Preparing activity:

Navy - AS

Project No. (9510-0728)