

MIL-S-6709A  
AMENDMENT 2  
18 July 1968  
  
Superseding  
Amendment 1  
26 December 1967

## MILITARY SPECIFICATION

### STEEL, CHROME-MOLYBDENUM-ALUMINUM; BARS, RODS, BILLETS AND FORGING STOCK (FOR NITRIDING) (AIRCRAFT QUALITY)

This amendment forms a part of Military Specification MIL-S-6709A, 24 March 1965, and is mandatory for use by all Departments and Agencies of the Department of Defense.

Page 2, paragraph 3.5.1: Delete and substitute:

"3.5.1 Macrostructure.- Segregation and imperfections disclosed by examination of deep-acid-etched bars in sizes up to 36 square inches, inclusive, shall not exceed the limits indicated by plates S-2, R-1, and C-2 of MIL-STD-430. Bars in sizes over 36 square inches to 100 square inches inclusive, shall not exceed S-2, R-2, and C-3.

Page 4, paragraph 4.7.2.2: Delete, and substitute:

"4.7.2.2 Microstructure specimens.- Samples shall be selected in such a manner to represent the entire cross sectional area of the bar, billet, or forging. Samples shall be austenitized at 1,700°F, oil quenched, and tempered at 1,000°F. Samples size 3/8 by 3/4 inch or more shall be suitably polished and etched for examination of the microstructure."

Custodians:  
Army - MR  
Navy - AS  
Air Force - 11

Preparing activity:  
Air Force - 11  
  
9510-0115

Reviewer activities:  
Army - MU  
Air Force - 82, 84

User activity:  
Army - AT