

# AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.  
29 West 39th Street  
New York City

## AMS 5010B

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### STEEL Screw Stock

1. ACKNOWLEDGEMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.

2. FORM: Cold drawn bars.

3. COMPOSITION:

		Individual Bar Check Analysis Over or Under
Carbon	0.08 - 0.13	0.01
Manganese	0.70 - 1.00	0.06
Phosphorus	0.07 - 0.12	0.01
Sulphur	0.16 - 0.23	--

4. CONDITION: Steel in the following size ranges shall have hardness within the respective limits specified:

<u>Diameter or Thickness, Inches</u>	<u>Brinell Hardness</u>
Up to 1.0, Incl.	170 - 255
Over 1.0 to 2.25, Incl.	156 - 201

5. QUALITY: Steel shall be uniform in quality and condition, sound, and free from foreign materials and from internal and external defects consistent with the type of steel involved which adversely affect its strength, use or machinability. Steel revealing defects during fabrication shall be subject to rejection.

6. TOLERANCES: Unless otherwise specified, tolerances shall conform to AMS 2231 as applicable and/or as specified below:

Diameter or Thickness - Table I, column headed "Mean of Carbon .30% and less."

7. REPORTS: (a) Unless otherwise specified, the vendor of steel, shall furnish three copies of a notarized report of the chemical composition of each size in each shipment. This report shall include the purchase order number, material specification number, size, and quantity.

(b) Unless otherwise specified, the vendor of finished or semi-finished parts shall furnish with each shipment three copies of a notarized report showing the purchase order number, material specification number, contractor or other direct supplier of steel, part number, and quantity. When steel for making parts is produced or purchased by the parts vendor, the vendor shall inspect each lot of steel to determine conformance to the requirements of this specification, and shall include in the report a certification that the steel conforms, or shall include copies of the laboratory report showing the results of tests to determine conformance.