

# AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.  
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## AMS 5010D

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### STEEL Screw Stock (SAE 1112)

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

2. FORM: Bars.

3. COMPOSITION:

		Check Analysis	
		Under Min	or Over Max
Carbon	0.13 max	--	0.02
Manganese	0.70 - 1.00	0.06	0.06
Phosphorus	0.07 - 0.12	--	0.01
Sulphur	0.16 - 0.23	--	--

4. CONDITION: Cold finished.

5. TECHNICAL REQUIREMENTS: Bars in the following size ranges shall have hardness within the respective limits.

Ø	Nominal Diameter or Distance Between Parallel Sides Inches	Hardness, Brinell
	1.00 and under	170-255
Over 1.00 - 2.00, excl	156-201	
2.00 and over	110-201	

6. QUALITY: Material 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, detrimental to fabrication or to performance of parts.

7. TOLERANCES: Unless otherwise specified, tolerances shall conform to the latest issue of AMS 2231 as applicable. Diameter and thickness tolerances shall conform to Table I, column headed "0.28 and under".

8. REPORTS:

8.1 Unless otherwise specified, the vendor of the product shall furnish with each shipment three copies of a report of the results of tests for chemical composition. This report shall include the purchase order number, material specification number, size, and quantity.

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