

# AERONAUTICAL MATERIAL SPECIFICATION

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

## AMS5060 A

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### C A R B O N S T E E L .13 -.18 Carbon

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

2. FORM: Bars, billets, forgings, tubing, or as ordered.

3. COMPOSITION:

		<u>Individual Bar</u> <u>Check Analysis</u> <u>Over or Under</u>
Carbon	0.13 - 0.18	0.01
Manganese	0.30 - 0.50	0.03
Phosphorus	0.040 max	0.008
Sulphur	0.050 max	0.008

4. CONDITION: (a) Bar stock and heavy wall tubing must be supplied in a machinable condition with a hardness of not more than Brinell 229, unless otherwise ordered.

(b) Stock ordered for forging must be supplied in the condition and finish ordered by the forging manufacturer.

(c) Forgings are to be supplied as ordered.

5. QUALITY: Bars shall be commercially straight, sound, of uniform quality and condition, free from pipes, laps, cracks, twists, seams, scale, damaged ends, or other injurious defects, and shall have a smooth finish of the best quality.

6. REPORTS: The manufacturer shall furnish three copies of a notarized report of the chemical composition of each heat and size on each shipment. This report shall include the purchase order number, heat number, material specification number, size, and quantity in each heat. If forgings are supplied, the part number and size of steel used to make the forgings shall also be included.

7. SHIPMENTS: More than one heat of steel shall not be supplied on a purchase order without permission, unless the order is for more than 5 tons.

8. IDENTIFICATION: (a) Bar stock 2 inches or larger must be stamped with the heat number within 2 inches of one end. Smaller bars may either be stamped with the heat number or securely bundled and identified by a metal tag stamped with the purchase order number, AMS 5060 A, and heat number.

(b) Forgings shall be identified in accordance with AMS 2808.

(c) Material that cannot be identified at destination is subject to rejection.

9. REJECTIONS: Material not conforming to this specification, or modifications specified on the drawing or the purchase order, is subject to rejection. If samples for verification are desired by the vendor, they must be claimed within three weeks. Rejected material or parts will be held a reasonable time, at