



# AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.  
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## AMS 5030B

Superseding AMS 5030A

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### STEEL WIRE, WELDING Low Carbon

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily for use as bare wire filler metal for welding carbon and low alloy steels.
3. COMPOSITION:

	min	max
Carbon	--	0.06
Manganese	--	0.25
Silicon	--	0.08
Phosphorus	--	0.040
Sulfur	--	0.040

- 3.1 Check Analysis: Composition variations shall meet the requirements of the latest issue of AMS 2259, paragraph titled "Carbon Steels, Wire, Other than Flat".
4. CONDITION: Unless otherwise ordered, wire shall be cold drawn, copper coated, in straight 36 in. lengths.
5. TECHNICAL REQUIREMENTS: Melted wire shall flow smoothly and evenly during welding and shall be capable of producing acceptable welds.
6. QUALITY: Wire shall be uniform in quality and condition, clean, sound, and free from foreign materials and from internal and external imperfections detrimental to welding operations, operation of welding equipment, or properties of the deposited weld metal.
7. TOLERANCES:
  - 7.1 Diameter: Plus and minus 0.002 inch.
  - 7.2 Length (Straight): Plus and minus 1/4 inch.
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 of each heat in the shipment and a statement that the product conforms to the technical requirements of this specification. This report shall include the purchase order number, heat number, material specification number and its revision letter, nominal size, and quantity from each heat.
  - 8.2 Unless otherwise specified, when parts made of this wire or assemblies requiring the use of this welding wire are supplied, the part or assembly manufacturer shall inspect each lot of wire to determine conformance to the requirements of this specification and shall furnish with each shipment three copies of a report stating that the wire conforms to the requirements of this specification. This report shall include the purchase order number, material specification number and its revision letter, part or assembly number, and quantity.

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