

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 5062

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Revised

STEEL, LOW CARBON

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. **FORM:** Bars, billets, forgings, mechanical tubing, sheet, strip, and plate.
3. **APPLICATION:** Parts for which a wide latitude in composition is permissible from the service standpoint and requiring no particular strength or hardness other than that inherent in steel of this type. Care is required in welding when carbon and manganese approach the maximum limits.

4. **COMPOSITION:**

<u>Check Analysis</u>			
Over Max			
Carbon	0.25	max	0.03
Manganese	1.00	max	0.06
Phosphorus	0.040	max	0.01
Sulfur	0.050	max	0.01

5. **CONDITION:** Unless otherwise specified, the product shall be furnished in the following conditions:
 - 5.1 **Bars and Mechanical Tubing:** Cold finished and in a machinable condition.
 - 5.2 **Sheet, Strip and Plate:** As rolled and oiled.
 - 5.3 **Forgings:** Normalized or otherwise heat treated to produce best machining qualities.
 - 5.4 **Forging Stock:** As ordered by the forging manufacturer.
6. **QUALITY:** Material shall be uniform in quality and condition, clean, sound, and free from foreign materials and from internal and external defects detrimental to fabrication or to performance of parts.
7. **TOLERANCES:** Unless otherwise specified, tolerances shall conform to the following:
 - 7.1 **Bars:** Shall conform to the latest issue of AMS 2231 as applicable and as specified below:
 - 7.1.1 **Diameter or Thickness:** Table I, Column headed "Mean of Carbon .30% and less".
 - 7.2 **Tubing:** Shall conform to the latest issue of AMS 2253 as applicable to cold finished Mechanical Type.
 - 7.3 **Sheet and Strip:** Shall conform to the latest issue of AMS 2232 as applicable and as specified below:

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