



AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS5060C

Superseding AMS 5060B

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STEEL (0.13-0.18C)(SAE 1015)

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. FORM: Bars, forgings, mechanical tubing, and forging stock.
3. APPLICATION: Primarily for steel backed bearings, and carburized parts requiring a low maximum hardness after quenching uncarburized surfaces of the steel in water from a temperature above the transformation range of the steel.
4. COMPOSITION:

	min	max
Carbon	0.13	0.18
Manganese	0.30	0.60
∅ Silicon	0.10	0.35
Phosphorus	--	0.040
Sulfur	--	0.050

- 4.1 Check Analysis: Composition variations shall meet the requirements of the latest issue of AMS 2259, paragraph titled "Carbon Steels, Bars, Forgings, and Forging Stock."
5. CONDITION: Unless otherwise ordered, the product shall be supplied in the following condition:
 - 5.1 Bars: Hot finished having hardness not higher than Brinell 229 or equivalent, except that bars ordered cold finished may have hardness as high as Brinell 241 or equivalent.
 - 5.2 Forgings: As ordered.
 - 5.3 Mechanical Tubing: Cold finished having hardness not higher than Brinell 241 or equivalent.
 - 5.4 Forging Stock: As ordered by the forging manufacturer.
6. TECHNICAL REQUIREMENTS: Specimens with sections 0.25 in. in thickness, after being quenched in water from a temperature above the transformation range, shall have surface hardness not higher than Rockwell C 30.
7. QUALITY: The product shall be uniform in quality and condition, clean, sound, and free from foreign materials and from internal and external imperfections detrimental to fabrication or to performance of parts.
8. TOLERANCES: Unless otherwise specified, tolerances shall conform to all applicable requirements of the following:
 - ∅ 8.1 Bars: The latest issue of AMS 2231; for all hexagons, tolerances for cold finished shall apply.
 - 8.2 Mechanical Tubing: The latest issue of AMS 2253.

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