SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 5069

1-15-59 Issued

Revised

STEEL (0.15 - 0.200) (SAE 1018)

485 Lexington Ave., New York 17, N.Y.

- ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
- FORMs Bars, billets, forgings, forging stock, or mechanical tubing.
- APPLICATION: Primarily for miscellaneous parts, such as bushings, requiring no 3. particular strength or hardness other than that inherent in low carbon steel of this type.
- 4. COMPOSITION:

		Check Ar	Check Analysis	
		Under Min or	Over Max	
Carbon	0.15 - 0.20	0.02	0.02	
Manganese	0.60 - 0.90	0.03	0.03	
Silicon	0.15 - 0.30	0.02	0.02	
Phosphorus	0.040 max		0.008	
Sulfur	0.050 max		0.008	

CONDITION:

the SAE Technical Board rules provides that: "All technengased in industry or trade is entirely voluntary. The rule is be guided by any technical report. In formulating imay apply to the subject matter. Prospective users of

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- 5.1 Bars: In a machinable condition; if ordered cold finished, hardness shall be not higher than Brinell 241 or equivalent.
- 5.2 Mechanical Tubing: In a machinable condition.
- 5.3 Forgings: As ordered.
- 5.4 Forging Stock: As ordered by the forging manufacturer.
- QUALITY: Material 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.
- TOLERANCES: Unless otherwise specified, tolerances shall conform to the following: 7.
- 7.1 Bars: The latest issue of AMS 2231 as applicable. Diameter or thickness tolerances for cold finished bars and all hexagons shall conform to Table I, column headed "0.28 and under".
- 7.2 Mechanical Tubing: The latest issue of AMS 2253 as applicable to Mechanical Type.