

# AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.  
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AMS 4500c

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## COPPER SHEET AND STRIP Soft Annealed

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. FORM: Sheet, strip, and plate.
3. APPLICATION: Primarily for formed and drawn parts, such as gaskets and washers, and for electrical purposes.
4. COMPOSITION: Material shall be electrolytic tough pitch or oxygen-free copper and shall contain not less than 99.90 per cent copper, silver being counted as copper.
5. CONDITION: Cold rolled and fully recrystallized, in soft, bright annealed temper.
6. TECHNICAL REQUIREMENTS:
  - 6.1 Bending: Material shall withstand, without cracking, bending at room temperature flat on itself, with axes of bends both perpendicular and parallel to the direction of rolling.
  - 6.2 Hardness:

Nominal Thickness, Inch	Hardness, Rockwell
0.015 to 0.019, incl	15T 68 max
0.020 and over	F 65 max
7. QUALITY: Material shall be uniform in quality and condition, clean, sound, smooth, and free from foreign materials and from internal and external defects detrimental to fabrication or to performance of parts.
8. TOLERANCES: Unless otherwise specified, tolerances shall conform to the latest issue of AMS 2222 as applicable. Thickness, width and straightness tolerances shall be as specified below:
  - 8.1 Thickness: Table I.
  - 8.2 Width: Table III.
  - 8.3 Straightness: Not required.

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