

AERONAUTICAL MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc.

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

AMS 4500D

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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% 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 axis of bend parallel to the direction of rolling.
 - 6.2 Hardness:

Nominal Thickness Inch	Hardness, Rockwell
ϕ 0.015 to 0.030, excl 0.030 and over	15T 68 max 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 imperfections 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.