

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS4500B

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COPPER SHEET AND STRIP 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 and strip.

3. **APPLICATION:** Primarily for formed and drawn parts, such as gaskets and washers, and for electrical purposes.

4. **COMPOSITION:** Sheet and strip shall contain not less than 99.90 percent copper, silver being counted as copper.

5. **CONDITION:** (a) Unless otherwise specified, sheet and strip shall be supplied cold rolled, fully recrystallized, in a soft bright annealed temper, and the hardness shall conform to the following:

<u>Nominal Thickness, inch</u>	<u>Hardness, Rockwell</u>
0.015 - 0.019, incl.	15T68 max
0.020, and over	F65 max

(b) A specimen shall withstand, without cracking, bending at room temperature, flat on itself in any direction.

6. **QUALITY:** (a) 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. Material in which defects are revealed during fabrication will be subject to rejection.

(b) Material and parts shall be subject to inspection by any method which will reveal harmful defects.

7. **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:

- (a) Thickness - Table I
- (b) Width - Table III
- (c) Straightness - not required.

8. **REPORTS:** (a) Unless otherwise specified, the vendor of the product shall furnish with each shipment three copies of a notarized report showing the results of tests to determine conformance to the requirements of this specification or stating that the chemical composition and physical properties of the product conform to the requirements specified. This report shall include the purchase order number, material specification number, size and quantity.

Section 1.1 of the SAE Technical Board rules provides that: "All technical reports, including standards and practices recommended, are advisory only. Their use by any person engaged in industry or trade is entirely voluntary. There is no agreement to adhere to any standard or recommended practice, and no commitment to conform to or be guided by any technical report. In formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against liability for infringement of patents."