

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 4505D

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BRASS SHEET AND STRIP
70Cu - 30Zn
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.

4. COMPOSITION:

Copper	68.5 - 71.5
Lead	0.07 max
Iron	0.05 max
Zinc	remainder

5. CONDITION: Cold rolled and fully recrystallized, in annealed temper.

6. TECHNICAL REQUIREMENTS:

6.1 Grain Size: Average grain size shall be 0.025 - 0.050 mm as determined by ASTM E79-49T.

6.2 Hardness: Material should have hardness of Rockwell Superficial 30T 25-38 or equivalent, but shall not be rejected on the basis of hardness if the grain size requirement is met.

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.

9. REPORTS:

9.1 Unless otherwise specified, the vendor of the product shall furnish with each shipment three copies of a report showing the results of tests to determine conformance to the requirements of this specification or stating that the chemical composition and grain size of the product conform to the requirements specified. This report shall include the purchase order number, material specification number, thickness, size and quantity.