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Revised _____

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AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.

29 West 39th Street

New York City

AMS

4510

PHOSPHOR BRONZE STRIP

1. **ACKNOWLEDGMENT:** A vendor must mention this specification number and its last revision in all quotations and when acknowledging purchase orders.

2. **COMPOSITION:**

Copper	94.0 - 96.0	} 99.5 min
Tin	3.8 - 5.8	
Phosphorus	0.03 - 0.35	
Zinc	0.3 max	
Iron	0.1 max	
Lead	0.05 max	
Antimony	0.01 max	

3. **CONDITION:** (a) This material shall be spring temper conforming to the following physical properties:

Tensile Strength, lb per sq in.	91,000 min
Tensile Strength, lb per sq in.	105,000 max
Rockwell Hardness	B-92 min

(b) Rockwell hardness values are offered as an indication of tensile strength; unless otherwise specified, they will be subject to confirmation by tension tests.

4. **QUALITY:** This material shall be uniform in color, quality and temper, clean, straight, smooth, and free from foreign material and all internal or external injurious defects.

5. **TOLERANCE:** Permissible variations in thickness of sheet 20 inches or less wide shall be as follows, All dimensions being in inches:

<u>Nominal Thickness</u>	<u>Tolerance, plus or minus</u>
Up to 0.0056, incl.	0.0004
Over 0.0056 to 0.0080, "	0.0006
Over 0.0080 to 0.016, "	0.002
Over 0.016 to 0.051, "	0.003
Over 0.051 to 0.128, "	0.004
Over 0.128 to 0.325, "	0.005
Over 0.325	0.006

6. **REPORTS:** The manufacturer shall furnish three copies of a certified report stating that the material is within the chemical requirements. This report shall include the purchase order number, material specification number, size and quantity. If parts are supplied, the part number shall also be included.