

AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 4558B

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 485 Lexington Ave., New York 17, N.Y.

Issued 5-1-48
Revised 8-15-58BRASS TUBING, SEAMLESS
66Cu - 32Zn - 1.6Pb
Drawn Temper

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

2. APPLICATION: Primarily for screw machine parts.

3. COMPOSITION:

Copper	65.0 - 68.0
Lead	1.25 - 2.0
Iron	0.07 max
Zinc	remainder

4. CONDITION: Drawn temper, general purpose.

5. TECHNICAL REQUIREMENTS:

5.1 Tensile Properties:

Tensile Strength, psi	54,000 min
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5.2 Hardness: Tubing should have hardness as follows, or equivalent, but shall not be rejected on the basis of hardness if the tensile property requirement is met:

Nominal Wall Thickness Inch	Hardness Rockwell
0.012 to 0.020, incl	15-T 78 min
Over 0.020 to 0.045, incl	30-T 53 min
Over 0.045	B 55 min

5.3 Mercurous Nitrate Test: Test specimens 6 in. in length shall be capable of withstanding, without cracking, testing in accordance with ASTM B154-51, Procedure A.

6. QUALITY: Tubing 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.

7. TOLERANCES: Unless otherwise specified, tolerances shall conform to the latest issue of AMS 2223 as applicable. Diameter and wall thickness tolerances shall be as specified below:

7.1 Diameter: Table I, Non-refractory.

7.2 Wall Thickness: Table II.