

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 4558

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Revised

BRASS TUBING Leaded - Drawn Temper

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

2. FORM: Seamless tubing.

3. APPLICATION: Primarily for screw machine parts.

4. COMPOSITION:

Copper	65.00 - 68.00
Lead	1.25 - 2.00
Iron	0.07 max
Zinc	remainder

5. CONDITION: Drawn, temper, general purpose.

6. TECHNICAL REQUIREMENTS:

6.1 Physical Properties:

Tensile Strength, psi	54,000 min
Hardness, Rockwell	
Wall thickness: 0.012 - 0.020 in., incl	15T 78 min
Over 0.020 - 0.045 in., incl	30T 53 min
Over 0.045 in.	B 55 min

6.2 Season Cracking: Test specimens 6 in. in length shall be capable of withstanding, without cracking, immersion for 15 min in an aqueous solution containing 100 g of mercurous nitrate and 13 ml of nitric acid (sp gr 1.42) per liter of solution, using at least 10 ml of solution per sq in. of test specimen surface area.

7. QUALITY: Tubing 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 2223 as applicable. Diameter and wall thickness tolerances shall be as specified below:

8.1 Diameter: Table I, Non-refractory

8.2 Wall thickness: Table II