

AERONAUTICAL MATERIAL SPECIFICATION

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BEARINGS, BABBITT COATED BRONZE Steel Back

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

2. TYPE: Steel back having leaded bronze and then babbitt cast on one or both faces.

3. COMPOSITION:

3.1 Babbitt (as poured):

Tin	86.0 min
Antimony	6.0 - 7.5
Copper	5.0 - 6.5
Lead	0.35 max
Tellurium	0.15 max
Arsenic	0.10 max
Iron	0.08 max
Bismuth	0.08 max

3.2 Bronze (as poured):

Copper	72.0 - 77.0
Lead	22.0 - 26.0
Tin	1.0 - 1.5
Iron	0.35 max
Total Other Elements	0.40 max

3.3 Back: Low carbon steel, unless otherwise specified on the drawing.

4. TECHNICAL REQUIREMENTS:

4.1 General:

4.1.1 Bearing metals shall be cast from the best grades of metals, at temperatures and cooling rates which will produce best structures for good bearing properties.

4.1.2 Bronze shall be firmly and continuously bonded to the back and shall be free from excessive and injurious lead segregation; babbitt shall be firmly and continuously bonded to the bronze.

4.2 Hardness of Back: Shall be not higher than Rockwell Superficial 15N 75 or equivalent, unless otherwise specified on the drawing.

5. QUALITY:

5.1 Bearing metals and back shall be uniform in quality and condition, clean, sound smooth, and free from foreign materials and from internal and external defects detrimental to their performance.

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