

AERONAUTICAL MATERIAL SPECIFICATION

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BEARINGS, BABBITT 91Sn - 4.5Sb - 4.5Cu

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

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

3. COMPOSITION:

3.1 Babbitt:

Tin	90.0	min
Antimony	4.0	- 5.0
Copper	4.0	- 5.0
Lead	0.50	max
Arsenic	0.10	max
Iron	0.08	max
Bismuth	0.08	max
Zinc	0.005	max
Aluminum	0.005	max
Total Other Elements	0.20	max

3.1.1 Sampling: Samples of babbitt for chemical analysis shall be taken between the surface and a point midway between the babbitt surface and the bond of the babbitt and backing.

3.2 Back:

3.2.1 Steel: Shall be low carbon, unless otherwise specified on the drawing.

3.2.2 Bronze: Shall be as specified on the drawing.

4. TECHNICAL REQUIREMENTS:

4.1 General:

4.1.1 Bearing metal shall be cast from the best grades of metals, at a temperature and cooling rate which will produce the best structure for good bearing properties.

4.1.2 Bearing metal shall be firmly and continuously bonded to the back.

5. QUALITY:

5.1 Bearing metal 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.