

AERONAUTICAL MATERIAL SPECIFICATION

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BEARINGS, LEADED BRONZE
80Cu - 10Pb - 10Sn
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 bearing metal cast on one or both faces.

3. COMPOSITION:

3.1 Bearing Metal:

Copper	77.0 - 81.0
Tin	9.0 - 14.0
Lead	8.0 - 11.0
Zinc	0.75 max
Nickel	0.50 max
Iron	0.35 max
Antimony	0.50 max
Phosphorus	0.05 max
Aluminum	none
Total Named Elements	99.65 min

3.2 Back: Low carbon steel, unless otherwise 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 and shall be free from excessive and injurious lead segregation.

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 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.

5.2 Inspection standards and procedures shall be as agreed upon by purchaser and vendor.

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