

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE AMS-7720

REV
A

Issued 1957-07-01
Revised 1990-07-01
Superseding AMS-7720

LEAD ALLOY CASTINGS 6.5Sb - 0.5Sn

This specification has been declared "NONCURRENT" by the Aerospace Materials Division, SAE, as of 4-6-84. It is recommended, therefore, that this specification not be specified for new designs.

This cover sheet should be attached to the original issue of the subject specification.

"NONCURRENT" refers to those materials which have previously been widely used and which may be required on some existing designs in the future. The Aerospace Materials Division, however, does not recommend these as standard materials for future use in new designs. Each of these "NONCURRENT" specifications is available from SAE upon request.

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This specification has been "CANCELLED" by the Aerospace Materials Division, SAE, as of January, 1990. By this action, the subject specification number and title will be deleted from the active specification index of Aerospace Material Specifications.

This specification is under the jurisdiction of AMS Committee "D".

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AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 7720

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

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Revised

LEAD ALLOY CASTINGS 6.5Sb - 0.5Sn

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily for balance weights in airframe control surfaces and control columns.
3. COMPOSITION:

Antimony	6.0 - 7.0
Tin	0.25 - 0.75
Bismuth	0.10 max
Arsenic	0.10 max
Other Impurities, total	0.077 max
Lead	remainder

4. CONDITION: As cast.
5. SURFACE: As cast, unless otherwise specified.
6. TECHNICAL REQUIREMENTS:
- 6.1 Tensile Properties: The product shall be capable of meeting the following requirements when tested at a rate of 1/4 in. per in. of gage length per minute:

Tensile Strength, psi	6,000 min
Elongation, % in 2 in.	18 min

- 6.2 Hardness: Shall be Brinell 11 - 14 when measured using a 10 mm ball under a 100 kg load for 30 seconds.
- 6.3 Density: Shall be 0.390 lb per cu in. $\pm$ 0.003.
7. QUALITY: Castings shall be uniform in quality and condition, sound, and free from foreign materials and from internal and external imperfections detrimental to fabrication or to performance of parts. Castings shall be well cleaned.
8. REPORTS:
- 8.1 Unless otherwise specified, the vendor of castings shall furnish with each shipment three copies of a report stating that the product conforms to the chemical composition and technical requirements of this specification. This report shall include the purchase order number, material specification number, size or part number, and quantity.

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