SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE MATERIAL SPECIFICATION

SAE AMS-4872 REV C

Issued 1946-01-01
Revised 1990-07-01

Submitted for recognition as an American National Standard

Superseding AMS-4872B

ALUMINUM BRONZE CASTING, SAND
85Cu - 11.2Al - 3.6Fe
As Cast

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 "B" revision 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".

SAE The Engineering Resource For Advancing Mobility®
400 COMMONWEALTH DRIVE, WARRENDALE, PA 15096

AEROSPACE MATERIAL SPECIFICATION

AMS 4872B

Issued 1-1-46
Revised 4-1-85

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

AMS 4872B

Issued 1-1-46
Revised 1-31-64

ALUMINUM BRONZE CASTINGS, SAND
85Cu - 11.2Al - 3.6Fe
As Cast

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

2. APPLICATION: Primarily for parts requiring high strength.

3. COMPOSITION:

	min	max
Copper	83.5	
Aluminum	10.5	12.0
Iron	3.0	4.25
Manganese	--	0.50
Nickel	--	0.50
Total Named Elements	99.7	--

4. CONDITION: As cast.

5. TECHNICAL REQUIREMENTS:

5.1 Casting: Castings shall be produced in lots from metal conforming to Section 3. Metal remelted from previously analyzed ingot may be poured directly into castings. Unless otherwise agreed upon by purchaser and vendor, molten metal taken from alloying ø furnaces, with or without additions of foundry operating scrap (gates, sprues, risers, and rejected castings), shall not be poured into castings unless first converted to ingot, analyzed, and remelted or until the composition of a sample taken after the last addition to the melt has been found to conform to Section 3.

5.1.1 A melt shall be the metal withdrawn from a batch furnace charge of 2000 lb or less as melted for pouring castings or, when permitted by the purchaser, a melt shall be ø 4000 lb or less of metal withdrawn from one continuous furnace in not more than 8 consecutive hours.

5.1.2 Unless otherwise specified, a lot shall consist of castings poured from a single melt ø in not more than 8 consecutive hours.

5.2 Cast Test Specimens: Tensile test specimens, and chemical analysis specimens when ø required, shall be cast as follows and, when requested, shall be supplied with the castings.

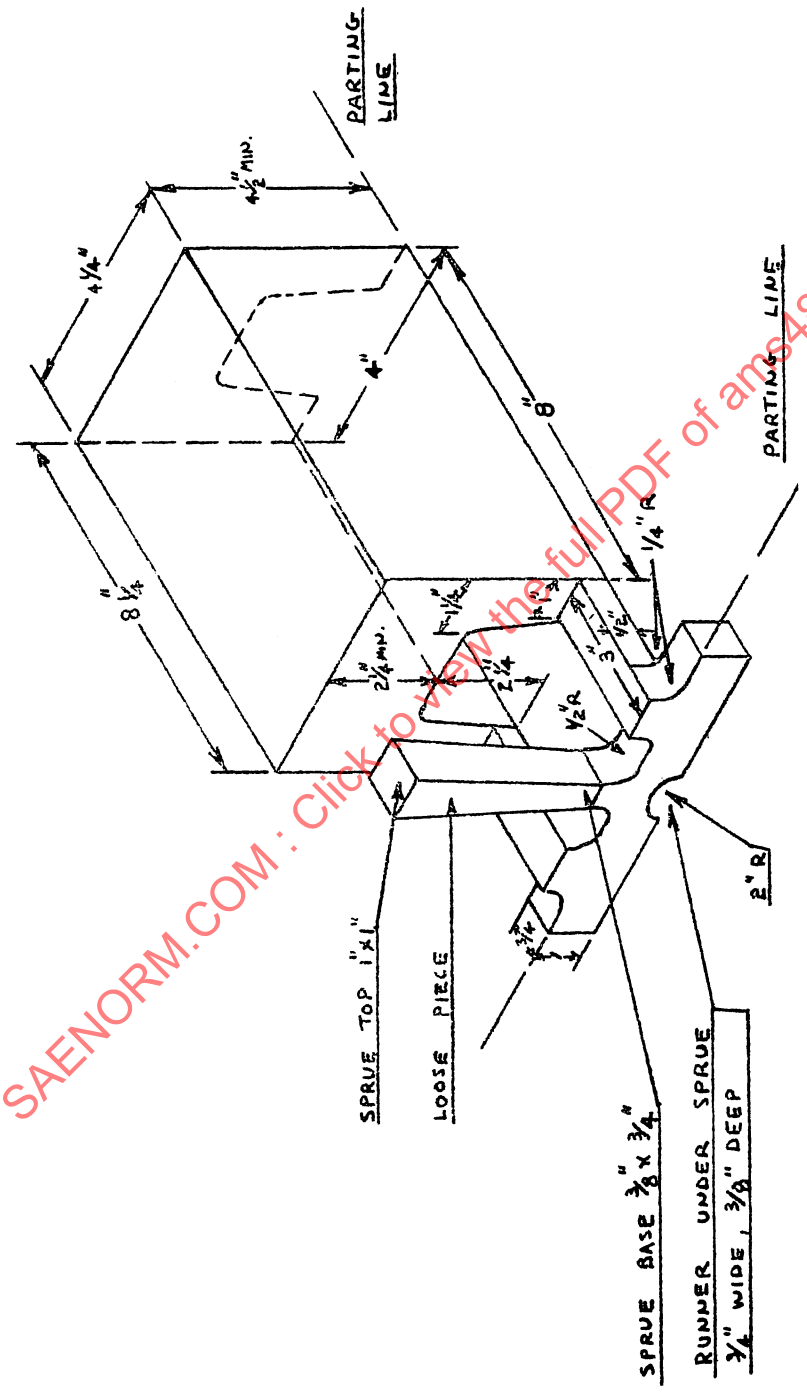

Figure 1