

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
29 West 39th Street
New York City

AMS4803A

Issued 11-1-44

Revised 6-1-51

ZINC ALLOY CASTINGS, DIE

4Al - 0.04Mg

As Cast

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

2. COMPOSITION:

Aluminum	3.75 - 4.25
Magnesium	0.03 - 0.05
Copper	0.10 max
Iron	0.10 max
Lead	0.007 max
Cadmium	0.005 max
Tin	0.005 max
Zinc	remainder

3. CONDITION: As cast.

4. QUALITY:

- 4.1 Castings shall be uniform in quality and condition, sound, and free from foreign materials and from internal and external defects detrimental to fabrication or to performance of parts.
- 4.2 Quality standards shall be as agreed upon by purchaser and vendor.
- 4.3 Castings shall not be repaired by plugging, welding or other methods, without written permission from the purchaser.
- 4.4 Castings shall not be impregnated, chemically treated or coated to prevent leaking, unless specified or allowed by written permission which states the method to be used. Impregnated castings shall be marked IMP.

5. REPORTS:

- 5.1 Unless otherwise specified, the vendor of castings shall furnish with each shipment three copies of a report stating that the castings conform to the requirements of this specification. This report shall include the purchase order number, material specification number, part number, and quantity.
- 5.2 Unless otherwise specified, the vendor of finished or semi-finished parts shall furnish with each shipment three copies of a report showing the purchase order number, material specification number, contractor or other direct supplier of castings, part number, and quantity. When castings for making parts are produced or purchased by the parts vendor, that vendor shall inspect each shipment or lot of castings to determine conformance to the requirements of this specification, and shall include in the report a statement that the castings conform, or shall include copies of laboratory reports showing the results of tests to determine conformance.

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