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AERONAUTICAL MATERIAL SPECIFICATION

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

AMS 5392

Issued 5-1-48

Revised

ALLOY IRON CASTINGS, SAND, CORROSION RESISTANT 15Ni - 6Cu - 2Cr

- ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
- 2. APPLICATION: Parts requiring moderate corrosion and heat resistance at operating temperatures up to 800 F.
- 3. COMPOSITION:

2.70 - 3.00
1.00 - 1.50
1.50 - 1.50
0.30 max
0.12 max
1.80 2.40
14.00 - 16.00
6.00 - 7.00

- 4. CONDITION: Annealed, unless otherwise specified.
- 5. TECHNICAL REQUIREMENTS:
- Annealing: Castings, after cooling to room temperature, shall be annealed by heating uniformly to 1400 F + 25, holding at that temperature for not less than 30 min and cooling uniformly in air.
- 5.2 Hardness: Brinell 130-175 or Rockwell B 75-85.
- 5.3 Microstructure: Austenite matrix with uniformly distributed graphite flakes.
- 6. QUALITY:
- 6.1 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. Castings shall have smooth surfaces and shall be well cleaned.
- 6.2 When castings are broken for fracture test, the fracture shall have a uniform color and be substantially free from oxides and other defects.
- 6.3 Unless otherwise specified, castings shall be produced under radiographic control.
- 6.4 Inspection standards and procedures shall be as agreed upon by purchaser and ven-
- 6.5 Castings shall not be repaired by plugging, welding or other methods without written permission from the purchaser.
- 7. REPORTS: