recommended, are advisory only. The mmended practices, and noc commitme littees will not investigate or considers that liability for infringment of patent s approved a any SAE sta the Board a rotecting the Board rules provides that: "All technical tyr or trade is entirely voluntary. There is in your technical report. In formulating and ubject matter. Prospective users of the Sectuse to con

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc. 29 West 39th Street New York City AMS 5361B

Issued 10-1-50 Revised 12-1-53

STEEL CASTINGS, SAND AND CENTRIFUGAL, CORROSION AND HEAT RESISTANT 18Cr - 13Ni - 2.1Mo

- 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 and assemblies requiring both corrosion and heat resistance up to 1600 F. At high temperatures, strength of this steel is slightly higher than, and oxidation resistance is similar to, that of 18-8 types.
- 3. COMPOSITION:

Carbon	0.15 - 0.25
Manganese	2.0 max
Silicon	1.0 max
Phosphorus	O Oli max
Sulfur	O'Oh max
Chromium	17.0 - 20.0
Nickel	12.0 - 15.0
Molybdenum	1.75 - 2.5

- 4. CONDITION: Solution heat treated unless otherwise specified.
- 5. TECHNICAL REQUIREMENTS:
- 5.1 Solution Heat Treatment: Castings shall be solution heat treated by heating to 1950 F ± 50, holding at heat for at least 1 hr, and cooling in air.
- Ø 5.2 Hardness: Castings shall have hardness not higher than Brinell 211 or equivalent.
 - 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. Unless otherwise specified, metallic shot or grit shall not be used for final cleaning.
 - 6.2 When castings are broken for fracture test, the fracture shall have uniform color and be substantially free from oxides and other defects.
 - 6.3 Unless otherwise specified, castings shall be produced under radiographic control.
 - 6.14 Inspection standards and procedures shall be as agreed upon by purchaser and vendor.
 - 6.5 Castings shall not be repaired by plugging, welding or other methods without written permission from purchaser.