n 7C of the SAE Technical Board rules is anyone engaged in industry or trade ridom to or be guided by ony technical ents which may opply to the subject mat

AERONAUTICAL MATERIAL SPECIFICATION

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

AMS5361

Issued 10-1-50

Revised

STEEL CASTINGS, SAND AND CENTRIFUGAL, CORROSION AND HEAT RESISTANT 18cr - 13Ni - 2.5Mo

- ACKNOWLED GMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
- 2. APPLICATION: 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:

0.08	max
1.00	- 2.00
1.00	max (
0.040	max O
0.030	
17.00	- 19,00
12.00	
2.00	-()3.00
	1.00 1.00 0.040 0.030 17.00 12.00

- Solution heat treated, unless otherwise specified. CONDITION:
- 5. TECHNICAL REQUIREMENTS:
- 5.1 Solution Heat Treatment: Castings shall be solution heat treated by heating to 1950 F + 50, holding at that temperature for one hour, and cooling in air.
- Castings shall have hardness not higher than Brinell 170 or equivalent. 5.2 Hardness:
- 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.
- 6.4 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 the purchaser.