

AERONAUTICAL MATERIAL SPECIFICATION

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STEEL SHEET AND STRIP

0.95Cr - 0.15V (0.48-0.53C) (SAE 6150)

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

2. APPLICATION: Springs.

3. COMPOSITION:

		Check Analysis	
		Under Min	or Over Max
Carbon	0.48 - 0.53	0.02	0.02
Manganese	0.70 - 0.90	0.03	0.03
Silicon	0.20 - 0.35	0.02	0.02
Phosphorus	0.040 max	--	0.005
Sulphur	0.040 max	--	0.005
Chromium	0.80 - 1.10	0.05	0.05
Vanadium	0.15 min	0.02	--

4. CONDITION: Cold finished and aamealed.

5. TECHNICAL REQUIREMENTS:

5.1 Grain Size: Five or finer as determined on the rerolling slab, ASTM E19-46, method a. A heat of steel predominantly five or finer with grains as large as three is permissible.

5.2 Decarburization: The surface shall not be decarburized to the extent of affecting the Rockwell hardness A scale after hardening.

5.3 Bending: Material shall withstand, without cracking, bending at room temperature through an angle of 180 degrees around a diameter equal to the nominal thickness of the material, with axes of bends both perpendicular and parallel to the direction of rolling.

6. QUALITY: Product shall be suitable for use in aircraft. It shall be uniform in quality and condition, clean, sound, smooth, and free from foreign materials and from internal and external defects detrimental to fabrication or to performance of parts.

7. TOLERANCES: Unless otherwise specified, tolerances shall conform to the latest issue of AMS 2252 as applicable.

8. REPORTS:

8.1 Unless otherwise specified, the vendor of the product shall furnish with each shipment three copies of a report of the results of tests for chemical composition and grain size of each heat in the shipment. This report shall include the purchase order number, heat number, material specification number, thickness, size, and quantity from each heat.

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