

AERONAUTICAL MATERIAL SPECIFICATION

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

AMS5042C

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STEEL SHEET AND STRIP Forming Low Carbon

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

2. COMPOSITION:

Carbon	.15 max
Manganese	.30 - .50
Phosphorus	.040 max
Sulphur	.050 max

3. CONDITION: (a) Cold rolled and oiled conforming to the following Rockwell hardness, or the equivalent:

<u>Thickness, Inches</u>	<u>Rockwell Hardness</u>
.1875 and under	B 52-64
.1876 and over	B 45-64

(b) Test specimens, cut transverse to the direction of rolling, shall withstand cold bending flat on themselves, without cracking.

4. QUALITY: Material shall be uniform in quality and condition, sound, and free from foreign material and from internal and external defects which adversely affect its strength, use, weldability or formability. Material revealing defects during fabrication shall be subject to rejection.

5. TOLERANCES: Unless otherwise specified, tolerances shall be in accordance with AMS 2232, as applicable or as specified below:

- (a) Thickness - Table II.
- (b) Width - Table III.

6. REPORTS: (a) Unless otherwise agreed, the supplier shall furnish three copies of a notarized report stating that this material meets all the requirements of this specification. This report shall include the purchase order number, material specification number, size and quantity.

(b) Unless otherwise specified, the vendor of finished or semi-finished parts shall furnish with each shipment, three copies of a notarized report showing the purchase order number, material specification number, contractor or other direct supplier of material, part number, and quantity. When material for making parts is supplied by the parts vendor, the vendor shall inspect each lot of material to determine conformance to the requirements of this specification, and shall include in the above report a certification that the material conforms, or shall include copies of the laboratory report showing the results of tests to determine conformance.