

AERONAUTICAL MATERIAL SPECIFICATION

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

AMS5044A

Issued 12-1-42

Revised 10-1-45

STEEL SHEET AND STRIP Low Carbon - Half Hard

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

2. **COMPOSITION:**

Carbon	0.15 max
Manganese	0.30 - 0.50
Phosphorus	0.04 max
Sulphur	0.05 max

3. **CONDITION:** (a) Cold rolled and oiled conforming to hardness of Rockwell B75-85 or the equivalent.

(b) Sheet and strip shall withstand, without cracking, bending at room temperature through an angle of 90° around a radius equal to the thickness of the sheet or strip, with the axis of the bend perpendicular to the direction of rolling.

4. **QUALITY:** Sheet and strip 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. Sheet and strip revealing defects during fabrication shall be subject to rejection.

5. **TOLERANCES:** Unless otherwise specified, tolerances shall conform to AMS 2232 as applicable.

6. **REPORTS:** (a) Unless otherwise specified, vendor of sheet and strip shall supply with each shipment three copies of a notarized report showing the results of tests to determine conformance or stating that the chemical composition and hardness of the sheet or strip conform to the requirements specified. This report shall include the purchase order number, material specification number, size and quantity.

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