

AERONAUTICAL MATERIAL SPECIFICATION

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

AMS 5045

Issued 7-1-45
Revised

STEEL SHEET AND STRIP Low Carbon - Hard Temper

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

2. COMPOSITION:

	<u>Individual Sheet or Strip</u>		<u>Check Analysis</u>
Carbon	0.25	max	+0.03
Manganese	0.30	- 0.60	±0.03
Phosphorus	0.04	max	+0.008
Sulphur	0.05	max	+0.008

3. CONDITION: Cold rolled and oiled, having the following hardness:

<u>Thickness, Inches</u>	<u>Hardness, Rockwell B</u>
Up to 0.069 in. thick	90 - 102
0.070 in. and over thick	84 - 96

4. QUALITY: (a) Sheet and strip shall be uniform in quality and temper, clean, sound, smooth, and free from surface and internal defects detrimental to fabrication or to performance of parts in service. If defects are revealed during fabrication, material shall be subject to rejection.

(b) Sheet, strip and parts made therefrom shall be subject to inspection by any method which will reveal defects.

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 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 supplied 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.