AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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STEEL SHEET AND STRIP
Low Carbon (Aluminum Coated)

1. ACKNOWLEDGMENT: A vendor must mention this specification number in all quotations and when acknowledging purchase orders.

2. COMPOSITION: The material shall consist of sheet steel of the following composition by ladle analysis, coated on each side with a layer of aluminum 0.0013 to 0.0020 inch thick:

Carbon	0.10 max
Manganese	0.30 - 0.50
Phosphorus	0.040 max
Sulphur	0.050 max

3. CONDITION: (a) Cold rolled to a maximum hardness of Rockwell B70 on the base metal.

(b) Bend test specimens shall withstand cold bending through a 180° angle over a diameter equal to four times the thickness of the specimen without flaking or peeling of the coating.

(c) Bend test specimens, cut transverse to the direction of rolling, shall withstand cold bending flat on themselves without cracking of the core.

4. QUALITY: This material must be uniform in quality and temper, straight, flat, clean, sound, smooth and free from buckles, seams, cracks, laminations, blisters, and other injurious defects within the limits of best commercial manufacturing methods. Material revealing defects during fabrication is subject to rejection.

5. TOLERANCE: The following variations in thickness are permissible in all widths; all dimensions are in inches:

Thickness	Tolerance, plus or minus
0.020 and under	0.003
Over 0.020 to 0.030, incl.	0.004
Over 0.030 to 0.050, incl.	0.005
Over 0.050 to 0.070, incl.	0.006
Over 0.070 to 0.080, incl.	0.007
Over 0.080 to 0.090, incl.	0.008

6. REPORTS: Unless otherwise specified, 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.