

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS4008

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Revised

ALUMINUM ALLOY SHEET & STRIP

Manganese (3S-1/2H)

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

2. COMPOSITION:

Manganese	1.0 - 1.5
Copper	0.2 max
Aluminum	97.0 min

3. CONDITION: (a) 1/2 hard.

(b) Test specimens cut parallel to the direction of rolling shall conform to the following requirements:

<u>Thickness</u>	<u>Tensile Strength</u> <u>Lbs. per sq. in.</u> <u>Min</u>	<u>Elongation %</u> <u>in 2 in. Min</u>
0.013 - 0.019	19,500	2
.020 - .031	19,500	3
.032 - .050	19,500	4
.051 - .113 *	19,500	5
.114 - .161 *	19,500	6
.162 - .249 *	19,500	7

*(Max thickness of strip sheet is 0.081)

(c) The material shall not crack when cold bent flat on itself with the axis of the bend parallel to the direction of rolling.

(d) Unless otherwise ordered, sheets shall have a bright finish and strip shall have a mill finish.

4. QUALITY: The material shall be uniform in quality and temper, straight, flat, clean and smooth, free from seams, laminations, blisters and other 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.