

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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New York City

AMS 4062 A

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ALUMINUM TUBING (SEAMLESS) (2S-1/2H)

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

Aluminum	99.00 min
Iron plus Silicon	1.00 max
Copper	0.20 max
Manganese	0.10 max
Zinc	0.10 max
Other Impurities, each	0.05 max
Other Impurities, total	0.15 max
3. CONDITION: (a) Half hard, unless otherwise specified, conforming to a minimum tensile strength of 16,000 psi.

(b) The tubing shall be capable of being flattened sidewise under a gradually applied load, without cracking, to an outside dimension six times the wall thickness.

(c) When specified, the tubing shall be capable of being flared sufficiently for use in standard compression type fittings, using shop equipment and practices.
4. QUALITY: (a) Tubing shall be uniform in quality and condition, sound and free from foreign material and from internal and external defects detrimental to fabrication or to the performance of parts in service. Tubing revealing defects during fabrication shall be subject to rejection.

(b) Tubing and parts made therefrom shall be subject to inspection by any method which will reveal defects.
5. TOLERANCES: Unless otherwise specified, tolerances shall conform to AMS 2203 as applicable for non-heat treatable alloys.
6. REPORTS: (a) Unless otherwise specified, the vendor of tubing shall furnish three copies of a notarized report stating that the physical properties and chemical composition of the tubing are within the requirements specified. 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 tubing, part number, and quantity. When tubing for making parts is produced or purchased by the parts vendor, the vendor shall inspect each lot of tubing to determine conformance to the requirements of this specification, and shall include in the above report a certification that the tubing conforms, or shall include copies of the laboratory report showing the results of tests to determine conformance.