

# AERONAUTICAL MATERIAL SPECIFICATIONS

## AMS 7233A

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### RIVETS, SOLID, ALLOY, CORROSION RESISTANT 67Ni - 30Cu

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. APPLICATION: Solid rivets requiring corrosion resistance at temperatures up to 800 F, where ease of driving and full heads are essential. Rivets shall not be hand peened during driving.
3. COMPOSITION:

Nickel + Cobalt	63.0 - 70.0
Cobalt, if determined	1.0 max
Iron	2.5 max
Manganese	2.0 max
Silicon	0.50 max
Carbon	0.16 max
Sulfur	0.024 max
Copper	remainder
4. CONDITION: Cold headed, unless purchaser permits machining, from cold drawn wire.  
Ø Unless otherwise specified, rivets after forming shall be annealed, and descaled if necessary.
5. TECHNICAL REQUIREMENTS:
  - 5.1 Hardness: Rivets after annealing shall have hardness not higher than Vickers 140, or equivalent (ASTM E110-58), when determined on a flat, smooth, filed or ground surface near the midlength of the shank.
  - 5.2 Shear Strength: The shank shall have shear strength not lower than 49,000 psi.
  - 5.3 Formability: Rivets shall be capable of being driven satisfactorily with a full head free from cracks.
6. QUALITY: Parts shall be uniform in quality and condition, clean, sound, smooth, and free from foreign materials and from internal and external imperfections detrimental to their performance.
7. REPORTS: Unless otherwise specified, the vendor of the product shall furnish with each shipment three copies of a report stating that the rivets conform to the chemical composition and technical requirements of this specification. This report shall include the purchase order number, material specification number, part number, nominal size, and quantity.  
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8. PACKAGING:
  - 8.1 Rivets of different part numbers shall be packed in separate containers.

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