

AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 4730C

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NICKEL-COPPER ALLOY WIRE, CORROSION RESISTANT 67Ni - 30Cu Annealed

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily for woven wire cloth and screen, and lockwire.
3. COMPOSITION:

Nickel + Cobalt	63.0 - 70.0
Iron	2.5 max
Manganese	2.0 max
Cobalt, if determined	1.0 max
Silicon	0.50 max
Carbon	0.30 max
Sulfur	0.024 max
Copper	remainder
4. CONDITION: Cold drawn from hot finished wire or rod and annealed, and descaled if necessary, unless otherwise specified.
 - 4.1 Wire shall be supplied in coils or spools, unless otherwise ordered.
5. TECHNICAL REQUIREMENTS:
 - 5.1 Tensile Properties:

Nominal Diameter Inch	Tensile Strength, psi, max	
	Coil or Spools	Straight Lengths
0.002 to 0.015, incl	105,000	--
Over 0.015 to 0.040, incl	100,000	--
Over 0.040	90,000	90,000
 - 5.2 Bending: Wire shall withstand, without cracking, bending at room temperature through an angle of 180 deg around a diameter equal to the nominal diameter of the wire.
6. QUALITY: Material shall be uniform in quality and condition, clean, sound, smooth, and free from foreign materials and from internal and external imperfections detrimental to fabrication or to performance of parts.

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