

AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 4730C

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 485 Lexington Ave., New York 17, N.Y.

Issued 5-1-48
Revised 7-1-57

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.