

DATA SHEET

304/304L STAINLESS STEEL WIRE (UNS S30400 ; S30403)

CHEMISTRY DATA

Carbon	0.08 max
Chromium	18.0 - 20%
Manganese	2.0 max
Nickel	8.0 - 10.5 %
Phosphorus	0.045% max
Silicon	1% max
Sulphur	0.03% max
Iron	Balance
(% by Weight)	

PHYSICAL DATA

Density (lb/cu. In.)	0.285
Specific Gravity	7.9
Specific Heat (Btu/lb/ Deg F-)	0.12
(32-212 Deg F)	
Electrical Resistivity	432
(micro ohm cm at 68 Deg F)	
Melting Point (Deg F)	2650
Modulus of Elasticity	28

Straightened and Cut Wire



Spring Temper

Spooled or Coiled Wire



Soft

1/4 Hard

ksi (N/mm²)

Diameter	UTS	Yield	Elongation
0.0280" (0.71mm)	285-315 (1965-2172)	242 (1668) min	2% min
0.3200" (0.81mm)	282-310 (1944-2137)	239 (1647) min	2% min
0.0480" (1.22mm)	267-295 (1840-2034)	214 (1475) min	2% min
0.0620" (1.58mm)	258-285 (1778-1965)	206 (1420) min	2% min
0.0800" (2.03mm)	246-275 (1696-1896)	196 (1351) min	2% min
0.0930" (2.36mm)	238-268 (1640-1847)	190 (1310) min	2% min
0.1050" (2.67mm)	227-257 (1565-1771)	181 (1247) min	2% min
0.1250" (3.18mm)	217-248 (1496-1709)	173 (1172) min	2% min
0.1875 (4.76mm)	194-225 (1337-1551)	155 (1068) min	2% min
0.2500" (6.35mm)	175-205 (1206-1413)	140 (965) min	2% min

Diameter	Tensile (UTS)	Yield (min.)	Elongation
0.0280" - 0.250" (0.71mm-6.35mm)	90-105 ksi (620-725 N/mm ²)	38 ksi (262 N/mm ²)	min 20%
0.0280"-0.2500" (0.71mm-6.35mm)	110-150 ksi (758-1039 N/mm ²)	45 ksi (310 N/mm ²)	min 10%

APPLICABLE STANDARDS

- o Spring Wire - ASTM A313, AMS5688, EN 10270-3, JIS G4314
- o Soft & 1/4 Hard Wire - ASTM A580/580M, AMS 5857, AMS7720, EN 1.4301, JIS G4309

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We can customize diameters, hardness, tensile, cut lengths, brightness, and more!