

## 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/mm<sup>2</sup>)

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 <sup>2</sup> )	38 ksi (262 N/mm <sup>2</sup> )	min 20%
0.0280"-0.2500" (0.71mm-6.35mm)	110-150 ksi (758-1039 N/mm <sup>2</sup> )	45 ksi (310 N/mm <sup>2</sup> )	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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