



# STAINLESS STEEL 304



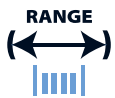
## Key Features

Good mechanical properties and corrosion resistance

### IMPORTANT

We will manufacture to your required mechanical properties.

## key advantages to you, our customer



0.025mm to 21mm  
(.001" to .827")



Order 3m to 3t  
(10 ft to 6000 Lbs)



Delivery:  
within 3 weeks



Wire to your spec



E.M.S available



Technical support

### STAINLESS STEEL 304 available in:-

- Round wire
- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

### Packaging

- Coils
- Spools
- Bars or lengths



# STAINLESS STEEL 304

Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM A313 ASTM A580 BS 970 BS 2056	Good mechanical properties and corrosion resistance	Springs Engineered components Wire mesh Wire cloth Hose braiding
C	-	0.07			
Mn	-	2.00	<b>Designations</b>		
P	-	0.045			
S	-	0.030	W.Nr. 1.4301 W.Nr. 1.4307 UNS S30400 AWS 161		
Si	-	1.00			
Cr	17.50	19.50			
Ni	8.00	10.50			

<b>Density</b>	8.0 g/cm <sup>3</sup>	0.289 lb/in <sup>3</sup>
<b>Melting Point</b>	1454 °C	2650 °F
<b>Coefficient of Expansion</b>	18.2 µm/m °C (20 – 100 °C)	10.1 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)
<b>Modulus of Rigidity</b>	70.3 kN/mm <sup>2</sup>	10196 ksi
<b>Modulus of Elasticity</b>	187.5 kN/mm <sup>2</sup>	27195 ksi

Heat Treatment of Finished Parts					
Condition as supplied by Alloy Wire	Type	Temperature		Time (Hr)	Cooling
		°C	°F		
Annealed or Spring Temper	Stress Relieve	250	480	1	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm <sup>2</sup>	ksi	°C	°F
Solution Annealed	600 – 800	87 – 116	-200 to +300	-330 to +570
Spring Temper	1300 – 2200	189 – 319	-200 to +300	-330 to +570

The above tensile strength ranges are typical. If you require different please ask.