



# STAINLESS STEEL 302



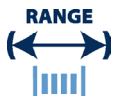
## Key Features

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 302 available in:-

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

### Packaging

- Coils
- Spools
- Bars or lengths



# STAINLESS STEEL 302



Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	AMS 5688 ASTM A313 ASTM A580 BS 970 BS 2056  <b>Designations</b>  W.Nr. 1.4310 UNS 30200 AWS 160	Good mechanical properties and corrosion resistance	Springs Engineered components Wire mesh Wire cloth Hose braiding
C	-	0.12			
Mn	-	2.00			
P	-	0.045			
S	-	0.03			
Si	-	1.00			
Cr	17.00	19.00			
Ni	8.00	10.00			
Fe	BAL				

<b>Density</b>	8.0 g/cm <sup>3</sup>	0.289 lb/in <sup>3</sup>
<b>Melting Point</b>	1420 °C	2590 °F
<b>Coefficient of Expansion</b>	17.6 µm/m °C (20 – 100°C)	9.8 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
Annealed	<800	<116	-200 to +300	-330 to +570
Spring Temper	1600-2200	232-319	-200 to +300	-330 to +570

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