



# STAINLESS STEEL 316 Ti

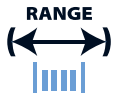
## Key Features

Better corrosion resistance at higher temperatures than 316 stainless

### 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 316 Ti available in:-

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

### Packaging

- Coils
- Spools
- Bars or lengths



# STAINLESS STEEL 316 Ti



Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM A240 ISO 15156-3 (NACE MR0175) BS EN 10088-3  <b>Designations</b>  W.Nr. 1.4571 UNS S31635 AWS 168	Better corrosion resistance at higher temperatures than 316 stainless	Chemical processing Springs Fasteners Thread inserts Wire mesh
C	-	0.08			
Si	-	1.00			
Mn	-	2.00			
P	-	0.045			
S	-	0.03			
Cr	16.50	18.50			
Mo	2.00	2.50			
Ni	10.50	13.50			
Ti	5 x C	0.70			
Fe	BAL				

<b>Density</b>	7.9 g/cm <sup>3</sup>	0.285 lb/in <sup>3</sup>
<b>Melting Point</b>	1375 °C	2500°F
<b>Coefficient of Expansion</b>	16.5 µm/m °C (21 – 100 °C)	9.11 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)
<b>Modulus of Rigidity</b>	74 kN/mm <sup>2</sup>	10730 ksi
<b>Modulus of Elasticity</b>	193 kN/mm <sup>2</sup>	27990 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	600 – 750	87 – 109	-200 to +300	-330 to +570
Spring Temper	1300 – 1600	189 – 232	-200 to +300	-330 to +570

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